**Pramod Kumar Lal Das**

**860-615-0144**

**Career Summary:**

* IT Professional with 18+ years of experience in Software Development across all phases of the Software Development lifecycle (SDLC) including requirement analysis, design, coding, and Unit testing and roll out.
* 5+ years of experience in Data Science, Machine Learning, Artificial Intelligence, GenAI, AI Agent.
* Life Science and Healthcare domain experienced. I have been working for a pharma giant for the last 9 years.
* Worked for Merck Co & Inc, Merck Pte Ltd, United Healthcare.
* Scrum Certified (Scrum Master PSM I)
* 10+ years of experience in. Net4.8/3.5/2.0, C#
* 7+ years of experience in Microsoft SharePoint Online/2013/2010
* Microsoft Azure Architect Technologies certified.

**Skills:**

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| --- | --- |
| **Machine Learning Algorithms** | Linear regression, SVM, KNN, Naive Bayes, Logistic Regression, Random Forest, Boosting, K-means clustering, Hierarchical clustering, Collaborative Filtering, Neural Networks, NLP,Transfor model,LLM,Gemini,Huggingface,  LangFlow,AI Agent,CrewAI |
| **Programming Language** | C#, Python |
| **Web Technologies** | SharePoint 2013/2010, O365, ASP.NET, HTML, JavaScript, AJAX, Web Services, CSS, jQuery, REST,CSOM, |
| **RDBMS** | SQL Server2005/20082/2012 |
| **Data Visualization/Reporting Tools** | Python-Matplotlib/Spotfire, SQL Server Reporting Services, Crystal Report |
| **Azure** | Function, Flow, Logic App |

**Client: Merck Co & Inc March 2016 to Present**

**Jersey City, NJ**

**Technical Manager**

**Project:** Org Repo Chatbot

**End Client:** Merck Co & Inc

**Technologies:** GenAI, Python, Astra DB, LangChain, VSCode.

**Description**: It is an RAG based chatbot. Astra DB is used to store different kinds of company internal data. Utility runs twice a day to add new data. Comprehensive and up-to-date content. Train on domain specific data. Chatbot is used by internal users across multiple divisions.

**Responsibilities:**

* Implemented a NLP (Natural Language Processing) solution for this project Chatbot accuracy >95% leading to reduction in response time
* Designed and implemented POC to develop a Chatbot to get end user confidence and sign-off.
* Post POC, lead team to complete implementation and production rollout.
* Developed an utility in VS Code to store various sources of data in Astra DB
* Managing team size of 7 resources for smooth development and support and providing technical guidance.
* Implemented a NLP (Natural Language Processing) solution for this project Chatbot accuracy >95% leading to reduction in response time

**Project:** Intelligent SCM Image Scanner

**End Client:** Merck Co & Inc

**Technologies:** Python, Resnet18, Pytorch, S3, GitHub Actions MongoDB, Docker,VSCode.

**Description**: This tool helps to detect medicines packets damaged during shipment from source to destination. S3 buckets are used to store packets images.

**Responsibilities:**

* Designed an architecture for an embeddings-based image search engine which includes CI/CD for Data Collection, model training pipeline, and model prediction.
* Used the S3 bucket as a Data Store and granted access to images for listing after a prediction from the model endpoint.
* Selected ResNet18 as embeddings generator and ANNOY algorithm for finding nearest neighbors in login time complexity.
* Created Lambda Triggers as model Reloaders in a Production environment for model prediction endpoints.

**Project:** Quality Analytics/Digitals Portal Analysis

**End Client:** Merck Co & Inc

**Description:** ML based project to implement ML model across an organization to adopt ML model .Helps to analyse gap between demand and forecast. Reduced the manual review time by > 60% of medicine packiging images.

**Technologies:** Data Science tools-Jupiter Notebook, Python, Pandas, Predictive modeling, GenAI.

**Responsibilities:**

* Designed and implemented over 25 machine-learning models for different programs and projects.
* Verified results of algorithms to predict future occurrences using real-world programs data with 82% precision.
* Developed an application that performed pattern analysis of Windows Server resource utilization and pattern to help to prevent server Crash/Shutdown
* Designed and created an application to analyze images and convert to natural language (English) descriptions.
* Utilized deep learning techniques to implement a convolutional neural network (CNN) with neural network to build the image caption generator.

**Project:** iPipe Migration & Remediation -SharePoint 2010 to Office 365 SharePoint online migration using Metalogix Content Migration Tool

**End Client:** Merck Co & Inc

**Description:** SharePoint Migration from 2010 and O365 SharePoint Online. Project has 25 site collections having 630 sites, 9 TB of content data, 40,000 owners, All types of mixed content and features, 3rd party solutions (e.g. Nintex, Dell Quest). For custom web parts, apps are developed to replace web parts. Implementation of Logic App and PowerApps

**Technologies:** SharePoint Online, Logic App,C#, Metalogix Content Matrix

**Responsibilities:**

* Identified key deliverables based on business requirements to manage stakeholder expectations and direct achievement of project goals
* Design and analysis to create SharePoint hosted app to replace custom web part
* Organize periodic review meetings with onsite and within offshore team Identify any possible risk associated with the project
* Responsible for maintaining Azure platform like VM, LogicApps etc. for project execution

**Company: Pure Software Limited.**

**Location: NOIDA, India**

**Role: Senior SharePoint Consultant**

**Duration: January 2016 to March 2016**

**Description:** This is a custom SharePoint workflow-based application. Valvoline has given provision to clients to request for discount amount based on purchase amount. Requested discount amount require different level for workflow-based approval depend on discount amount. Workflow levels are configurable so at any time approval level can be added or removed.

**Project: SPRC-Special Price Request Discount (Valvoline Cummins)**

**Technologies:** SharePoint 2010, C#.NET, Ajax, SQL Server 2008, JavaScript, jQuery

# Responsibilities:

* + Involve in requirement gathering from business user, analysis and designing.
  + Providing architectural support for the delivery teams
  + Task distribution between teams as Modules, Features etc.
  + Creating Web Part and integrating it into Portal.
  + Created Timer Job Service for Alert Management, Event Receiver.
  + Responsible of Release management.

**Company: Acuvate Software Limited.**

**Role: System Analyst**

**Location: Hyderabad, India**

**Duration:** **June 2014 to July 2015**

**Description:** Bajaj Finserv Lending (BFL) has a requirement for building an Intranet platform for its Employees across Pan India. The Intranet will have Collaboration that evolves into a platform for features like - rich document management, business process automation, and employee engagement, management information and business reporting.

**Project: ULive (Bajaj Finserv Lending)**

**Technologies:** SharePoint 2013, Timer Jobs, Event Receivers, SharePoint Designer, Rest API, ECMA Script, Server object model, C#.NET, Ajax, SQL Server 2008, JavaScript, jQuery.

**Responsibilities:**

* + Involve in requirement gathering from business user, analysis and designing.
  + Providing architectural support to the delivery teams
  + Task distribution between team as Modules, Features etc.
  + Creating Web Part and integrating it into Portal.
  + Involved in Configuring Site and Sub sites.
  + Created Timer Job Service for Alert Management, Event Receiver.
  + Involved in Prototype preparation.
  + Responsible for Release management.

**Company: Sify Technology Limited.**

**Role: Technical Lead**

**Location: New Delhi, India**

**Duration: March 2013 to April 2014**

**Description:** To monitor and keep track of all the project execution activities starting from receiving of project proposals from the Concern Agencies till the project Completion. Ministry of Tourism of the Government of India, as the nodal agency, formulates national policies and programs for the development and promotion of the tourism sector in the country.

**Project**: Project Monitoring Information System-Ministry of Tourism, Govt of India.

**Technologies**: SharePoint 2010, Timer Jobs, SharePoint Designer, ECMA Script, Server object model, C#.NET, Ajax, SQL Server 2008, JavaScript.

# Responsibilities:

* + Involved in analyzing, designing and developing the application.
  + Used SharePoint Object Model for development of visual web parts.
  + Devel3oped SharePoint Designer Workflows
  + Branded SharePoint sites using SharePoint Designer 2010
  + Customized site using master page templates.
  + Administrated Central Admin, Shared Services & imported user profile.

**Project**: Financial Accounting

**Duration**: April 2012 – February 2013

**Description**: This is for organization having more the 50 branches office across India. Accounting functions are being carried out at Head Office (H.O) and in all the Branch offices (B.O). Consolidation of Accounts of all the branches takes place at H.O level. MIS reports are being generated from these consolidated accounts at H.O only. The accounting process and procedures are fixed by the H.O and is replicated at the Regional and Branch offices. The chart of accounts is fixed by H.O, which is followed by the Branch offices shall not be allowed to add/edit and of the account heads in the chart of account. This system has three modules Master (H.O and B.O), Transaction and Reports. Transaction has different types of voucher creations (Like Journal, Bank /Cash receipt and payment)

**Technologies**: C#, ASP.NET 3.5, SQL Server 2008, SSRS

# Responsibilities:

* + Involved in analyzing, designing and developing the application.
  + Database design and various object creations.
  + Report on format design and creation.
  + Responsible for module wise release and integration of entire application

**Company: In-transit Software.**

**Role: Software Engineer**

**Location: New Delhi, India**

**Duration: November 2004 to April 2007**

**Project:** SMCKB (Sector Micro Knowledge Base Application)

**Technologies:** Asp.net 2.0, C#, Sql Server 2005, Ajax, JavaScript.

**Responsibilities:**

* Database design and various object creation
* Coding and Unit testing
* Bug fixing

**Self Hosted GenAI based application for Public Usage**

* [**https://pramodklal-mytravelplanner.streamlit.app/**](https://pramodklal-mytravelplanner.streamlit.app/)
* [**https://pramodklal-geminiragbot.streamlit.app/**](https://pramodklal-geminiragbot.streamlit.app/)
* [**https://pramodklal-rxpresciptionscanner.streamlit.app/**](https://pramodklal-rxpresciptionscanner.streamlit.app/)
* [**https://pramodlal-kisaansaathi.streamlit.app/**](https://pramodlal-kisaansaathi.streamlit.app/)

**Educational Qualification:**

* 3 years M.Sc. Integrated (Operations Research & Computer Application) from Dr.B.R.A. University Agra, India
* MBA (Specialization in Information System) from Sikkim Manipal University Distance Education, India
* B.Sc. (Physics Hons) from L.N.M.U, Darbhanga, India
* 12th from C.B.S.E, New Delhi, India
* 10th from B.S.E.B, Patna, India

**Certifications:**

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| --- | --- | --- |
| **Exam ID** | **Description** | **Date Completed** |
|  | Udemy:[The Complete dbt (Data Build Tool) Bootcamp: Zero to Hero](https://www.udemy.com/course/complete-dbt-data-build-tool-bootcamp-zero-to-hero-learn-dbt/) | November,2024 |
|  | Scrum Master PSM I | July, 2022 |
|  | Data Science using Python from E & ICT Academy, IIT Kanpur | November,2021 |
|  | Managerial Excellence Program Tenured Manager: Advance Level | March,2020 |
| AZ-300 | Microsoft Azure Architect Technologies | January,2020 |