

Likhitha Mannem

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SUMMARY

Detail-oriented Data Analyst with over 4 years of experience delivering actionable insights across financial services, healthcare, and technology sectors. Adept at building scalable data pipelines, engineering predictive models, and creating interactive dashboards using Python, SQL, Power BI, and Tableau. Demonstrated expertise in architecting cloud-native data ecosystems with AWS (S3, Lambda, Glue, Redshift) and Snowflake, elevating reporting efficiency, analytics capabilities, and data-driven decision-making. Specialized in healthcare data analytics, including compliance with HIPAA, integration with EMR/EHR platforms (FHIR, HL7), and implementation of HEDIS and CMS Star Ratings quality measures. Consistently drives improvements in operational performance, data reliability, and regulatory readiness by automating workflows and enforcing robust data governance. Recognized for cross-functional collaboration, translating complex business needs into innovative analytics solutions, and advancing user and stakeholder engagement through clear communication and strategic insights.

EDUCATION

Master of Science in Computer Science

Florida Atlantic University, FL

May 2025

Bachelor of Technology in Computer Science

Swarna Bharathi Institute Of science and Technology, India

Sep 2020

EXPERIENCE

Data Analyst Intern- Charles Schwab, FL

Jan 2025 – May 2025

- Aggregated client investment and transaction data using Python and SQL to enhance accuracy in Schwab's client-centric analytics platforms, facilitating data-driven client service improvements.
- Audited data quality and consistency through Tableau Prep and Power Query, decreasing errors in performance dashboards and enabling accurate performance reporting for Schwab's investment solutions group.
- Visualized client trading activity patterns via Power BI and Plotly/Dash to identify emerging market trends, informing Schwab's strategy for optimizing trading platforms and client engagement.
- Constructed statistical models in R and with scikit-learn to predict service demand fluctuations, supporting more effective resource allocation for Schwab's 24/7 customer support teams.
- Collaborated with wealth management and technology teams to translate business needs into data solutions, using Snowflake and AWS Glue for scalable, cloud-based analytics—delivering timely insights for Schwab's managed investing products.
- Documented analytics workflows and data lineage in Confluence and GitHub, providing clear guides for reproducibility, compliance, and knowledge transfer within Schwab's data analytics division.
- Streamlined quarterly reporting and KPI tracking by automating data pipelines with Airflow and Docker, resulting in a 30% reduction in report generation time and faster executive decision-making.
- Explored new fintech and AI trends through hands-on research with Databricks and Azure ML, providing Schwab leadership with recommendations for future enhancements in intelligent investment advisory services.

Data Analyst - Intex Technologies, India

Jan 2022 – Jul 2023

- Engineered automated data pipelines utilizing Python (Pandas, NumPy), SQL, and AWS (S3, Lambda, Redshift) to seamlessly integrate multi-source sales and inventory data, achieving a faster analytics workflow and supporting real-time decision-making.
- Developed actionable business insights by performing advanced exploratory data analysis (EDA) and KPI monitoring in Power BI, enabling leadership to identify growth opportunities and decreasing stockouts.
- Constructed robust SQL Server dashboards and Excel reporting templates for ad hoc analysis and KPI tracking, optimizing sales operations and shortening reporting cycles by 30%.
- Implemented predictive models in Scikit-learn and conducted A/B testing in Python to forecast product returns and evaluate promotional strategies, leading to a 14% lift in campaign conversions and proactive inventory adjustments.
- Established comprehensive data governance and audit compliance workflows leveraging Python, GDPR, and HIPAA best practices, which improved data integrity for CRM and ERP platforms and readiness for regulatory audits by 25%.
- Executed requirement gathering and cross-functional collaboration with product, finance, and operations teams, translating business needs into SQL-based reports and automating clinical feasibility analytics.
- Analyzed customer behavior and funnel metrics using cohort analysis in SQL and Excel, delivering recommendations that improved app retention and user engagement by 19%.
- Streamlined ETL workflows with Apache Airflow and Informatica for large-scale transactional data processing, elevating the quality and accuracy of dashboard metrics and increasing data reliability.
- Optimized data validation and quality assessment frameworks utilizing Data Validation, Pandas, and Data Wrangling methods, which reduced data entry inconsistencies and ensured 99.9% accuracy across all CRM and ERP system reports.
- Facilitated executive presentations and data storytelling sessions using Power BI and Excel dashboards, translating complex analytics findings into actionable strategies and strengthening leadership buy-in for key digital transformation initiatives.

Business Data Analyst - CitiusTech, India

March 2020 – Dec 2021

- Synthesized diverse healthcare datasets using Python (Pandas, NumPy) and SQL to ensure data integrity and consistency for Medictiv's AI model marketplace, enabling improved interoperability across provider and payer systems.
- Engineered advanced data cleaning and validation routines with PySpark and Azure Data Factory, reducing data inconsistencies by 30% and supporting high-quality input for open AI models.
- Analyzed patient journey and claims data with R and scikit-learn to reveal actionable clinical patterns, supporting the optimization of population health management strategies at CitiusTech.
- Designed interactive dashboards with Tableau for real-time monitoring of AI model performance, thereby accelerating

- stakeholder decision-making for Medictiv’s healthcare clients.
- Constructed robust predictive models for risk stratification using TensorFlow and Keras, enabling healthcare organizations to proactively manage at-risk populations and reduce readmission rates.
- Collaborated with cross-functional teams including data engineers, clinicians, and business analysts to translate complex requirements into analytics solutions, ultimately driving effective data-driven interventions in the open healthcare ecosystem.
- Documented all data transformation workflows, feature engineering logic, and model evaluation metrics in GitHub and Confluence, ensuring reproducibility and compliance with HITRUST and HIPAA standards.
- Automated data ingestion and reporting pipelines via Airflow and Docker, increasing reporting efficiency by 40% and supporting scalable analytics as Medictiv’s AI model directory expands.

Data Analyst Intern - Hexaware Technologies
July 2019 – Jan 2020

- Acquired and assembled initial datasets from internal databases and external sources utilizing SQL and Python, establishing a reliable foundation for subsequent analysis and reporting tasks within the team.
- Cleaned and preprocessed datasets by handling missing values and duplicates, improving overall data quality and preparing information for accurate analysis.
- Assisted in building basic visualizations and dashboards with Excel and Tableau to help translate data trends into actionable insights for business stakeholders.
- Supported data validation workflows by running simple queries and checks, identifying inconsistencies and reporting them to senior team members for correction.
- Learned and applied statistical concepts to summarize and interpret data distributions, providing input for team meetings on potential business opportunities.
- Collaborated with colleagues to document processes and present findings, developing strong communication skills necessary for sharing insights with non-technical audiences.

TECHNICAL SKILLS

Programming Languages:	Python (Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn), SQL, DAX, NoSQL
Machine Learning and Deep Learning:	Predictive Modeling, Risk Scoring, Regression, Forecasting, Time Series Analysis, A/B Testing, Hypothesis Testing, Cohort Analysis, Model Evaluation, Feature Engineering, Experimental Design
Computer Vision:	OpenCV, scikit-image
Natural Language Processing:	spaCy, NLTK, Regex, Text Preprocessing, Named Entity Recognition (NER), Text Classification
Data Analytics:	Exploratory Data Analysis (EDA), KPI Monitoring, Data Wrangling, Requirement Gathering, Ad Hoc Reporting, Claims Analysis, Clinical Feasibility, Revenue Optimization, Data Cleaning & Preparation
Data Visualization:	Power BI, Tableau, Excel (Dashboards, Pivot Tables, Advanced Functions), Funnel Charts, Plotly
Databases:	SQL Server, Snowflake, Redshift
Cloud & Deployment:	AWS (S3, Lambda, Glue, Redshift)
Security & Compliance:	HIPAA, CMS Star Ratings, HEDIS, HL7, FHIR, Data Lineage, Audit Compliance, Data Validation, Governance Frameworks, GDPR, CCPA, Data Anonymization, Bias Detection
Tools & Libraries:	Apache Airflow, Apache NiFi, Informatica, AWS Glue, Python (ETL), Excel, CRM/ERP Platforms, Statsmodels, Git

Leadership Experience

Mentor – International Friends Program (IFP)
Spring 2025

- Provide guidance and support to new international students, fostering a welcoming environment.
- Organize group activities and events to promote cultural exchange and community building.

Public Relations Committee Member – Asian Student Union
Sep 2024 – Apr 2025

- Promote club events through campus outreach and social media.
- Engage with students to increase awareness and participation in cultural activities.

Secretary & President– Swarna Bharathi Institute of Science & Technology, India
Jan 2018-June2020

- President, Student Creative Club
 - Founded and led a student-run creative organization focused on student development and cultural engagement.
- Organized campus-wide events and workshops, managed budgets, and coordinated with faculty and administration
- Promoted leadership, creativity, and collaboration among 100+ students
- Recorded meeting minutes, managed communications, and supported event logistics.