

Shashank Mankala

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SUMMARY

Data Scientist with expertise in extracting actionable insights through advanced data analysis and machine learning. Skilled in Python, SQL, and cloud platforms, with a proven ability to design robust predictive models and scalable data pipelines. Combining academic excellence in data science with hands-on experience in analytics and software development, I aim to deliver impactful, data-driven solutions that drive organizational success. Seeking opportunities to leverage my technical and analytical skills in a challenging role.

EDUCATION

University at Buffalo (State University of New York)

MS in Data Science

Dec 2025 | Buffalo, United States

Lovely Professional University

Computer Science and Engineering, Data Science Specialization

2019 – 2023 | Jalandhar, India

SKILLS

Technical Skills:

- Programming Languages:** Python, SQL, C++, JavaScript, MATLAB
- Frameworks and Tools:** FastAPI, Streamlit, Docker, MLFlow, DagsHub, Apache Spark, Apache Kafka
- Machine Learning:** Logistic Regression, Random Forest, XGBoost, Feature Engineering, Model Deployment
- Data Visualization:** Tableau, Power BI, Looker Studio
- Cloud Platforms:** AWS, Google Cloud (GCP), Snowflake, Databricks
- Database Systems:** MySQL, PostgreSQL, Graph DB
- Other Tools:** Git, Jupyter Notebook, Scikit-Learn, Pandas, NumPy

Soft Skills:

Analytical Thinking • Problem Solving • Collaboration • Adaptability • Effective Communication

WORK EXPERIENCE

SHADOWFAX | Lead Data Analytics

Dec 2023 – July 2024 | Bangalore, India

- Achieved 98% accuracy in cleaning the employee database, a company-first in its 9-year history.
- Leveraged analytical insights to optimize manpower allocation in the East region, boosting productivity by 60%.
- Delivered actionable insights by conducting in-depth hub performance analysis, enhancing efficiency across key operations.

FRUGAL TESTING | Software Development Engineering in Test Intern

June 2022 – June 2023 | Hyderabad, India

- Designed and implemented automation frameworks for 4 high-impact projects, cutting manual testing efforts by 40%.
- Optimized testing methodologies through innovative data-driven solutions, increasing overall efficiency by 30%.
- Partnered with stakeholders to ensure alignment across teams, delivering projects on time with improved testing outcomes.

PROJECTS

Diabetes Prediction using Machine Learning

Nov 2024 – Dec 2024

- Built a complete end-to-end pipeline to predict diabetes based on health attributes like BMI, HbA1c level, blood glucose levels, and smoking history.
- Developed and deployed the model using FastAPI, Docker, and Google Cloud Run, allowing real-time predictions.

- Designed an interactive Streamlit app for visualization and real-time classification of patient data.
- Utilized advanced machine learning techniques (Logistic Regression, Random Forest, XGBoost) with an emphasis on feature engineering and dimensionality reduction.
- Logged and tracked experiments using MLFlow/DagsHub, and containerized the solution for scalable deployment.

Heart Attack Prediction using Machine Learning

Sep 2024 – Dec 2024

- Developed a predictive model to assess the likelihood of heart attacks using health and demographic data from a large dataset.
- Utilized statistical techniques and machine learning algorithms such as Logistic Regression, Random Forest, and XGBoost to analyze factors like general health, physical activity, smoking status, and BMI.
- Performed data preprocessing, feature engineering, and model tuning to improve accuracy and prediction reliability.
- Achieved high accuracy and F1 scores in predicting heart attack risk, with insights derived from patient history, lifestyle, and medical records.

CHATBOT: DIALOGFLOW, FASTAPI, AND GITHUB IN ACTION

- Designed and developed an interactive chatbot that streamlined the process of 2 main components, i.e., food ordering and order tracking.
- Crafted conversational flows for ordering and tracking using Dialogflow intents and fulfillment.
- Engineered a highly efficient backend system using Python and FastAPI to process user requests, resulting in a 40% reduction in response time and improved overall user experience.

ROAD ACCIDENT ANALYSIS DASHBOARD

- Conducted an in-depth analysis of the dataset, identifying and highlighting significant trends within the road accident data.
- Utilized advanced data visualization techniques in Tableau to present the identified trends in a clear and intuitive manner.
- Generated different aggregates to summarize key statistics and metrics related to road accidents, providing stakeholders with valuable insights

CERTIFICATES

- Career Essentials in Data Analysis by Microsoft and LinkedIn (06/2023)
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- Advanced SQL Certificate by HackerRank (04/2023)
- DSA Self-paced course by GFG (07/2021)
- Modern Big Data Analysis with SQL Specialization (07/2021)
- Secured Problem-Solving Certificate by Hackerrank (10/2020)

INTERESTS

Chess, Competitive Programming, Exploring New Technologies, Gaming, Networking.