

Manohar Mata

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Professional Summary

A master's student in Applied Analytics with hands-on experience in data analysis using Python, SQL, and Power BI. Proven ability in optimizing ETL pipelines and creating interactive dashboards to drive data-informed decision-making. Adept at collaborating with cross-functional teams and applying statistical methods to uncover actionable insights. Eager to contribute analytical expertise and a results-oriented approach as a Data Analyst Intern.

Education

Saint Louis University

Master of Science, Analytics (GPA: 4.0)

2024 - May 2026

Dhanekula Institute of Engineering and Technology

Bachelor of Computer Science Engineering (GPA: 7.63)

2020 - 2024

Professional Experience

SkillVertex | Machine Learning Engineer – Diabetes Prediction Project

May 2022 - Jul 2022

- Developed and fine-tuned ML models using Python libraries like Pandas, NumPy, and Scikit-Learn to predict diabetes.
- Implemented various algorithms including SVC and KNN, achieving a top accuracy of 81%.
- Enhanced data pipelines to ensure high-quality inputs for robust model training.
- Utilized TensorFlow and Scikit-Learn for effective model tuning and evaluation.
- Maintained comprehensive documentation for reproducibility and team collaboration.

Projects

Blood Donation Prediction with MLOps Integration

Dec 2024 - Jan 2025

- Built an MLOps pipeline with steps including data ingestion, validation, transformation, model training, and evaluation.
- Achieved 80% accuracy using Logistic Regression and deployed the model using Docker and AWS ECR.
- Leveraged Hub Actions for CI/CD pipelines, ensuring seamless version control.

Adventure Works Sales Dashboard

Mar 2025 - Apr 2025

- Analyzed 5K+ sales records across 4 regions using dynamic filters and time series trends
- Visualized product-wise and category-level performance to uncover top-selling items
- Implemented customer segmentation based on buying patterns and demographics
- Mapped regional sales growth using geo-visuals to support strategic decisions
- Boosted stakeholder engagement by 30% through interactive and insightful reporting

Calmpanion – AI Mental Health Chatbot | Python, Streamlit, Groq API, Flask, Mistral AI

Feb 2025 - Apr 2025

- Built an AI-powered mental health chatbot with text input using Streamlit
- Integrated Llama 3 & Mistral AI models for flexible, multimodal conversation support
- Enabled customizable prompts and system instructions for dynamic user experiences
- Designed a responsive UI with real-time interaction and speech-to-text features
- Implemented RAG support with ChromaDB to provide contextual well-being resources

Technical Skills

- **Programming Languages:** Python, SQL, C++
- **Data Science & Analytics:** Data Analysis, Statistical Analysis, Data Visualization, Business Analytics, Mathematical Optimization, Data Manipulation, SPSS
- **Machine Learning & NLP:** Machine Learning, Natural Language Processing, Deep Learning, Basic MLOps
- **Data Processing & Tools:** Pandas, NumPy, Power BI, TensorFlow, Scikit-Learn, ETL Practices, Excel
- **Database Knowledge:** MySQL, PostgreSQL
- **Deployment Tools:** Streamlit, Flask, Docker, AWS, Git/Github
- **Cloud Platforms:** Azure

Certifications

- **Machine Learning Foundation Certification:** Infosys
- **Data Processing and Visualization Certification:** Accenture
- **Basic Python Certification:** HackerRank
- **Google Cloud Digital Leader Certification:** Google
- **Mathematics for Data Science:** Udemy