

Naveen Morla

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WORK EXPERIENCE

Data Scientist / Software Engineer

Jan 2024 – Present

THK Manufacturing of America, Inc.

- Developed and deployed high-performance APIs using **FastAPI** for real-time data ingestion and processing of machine and inventory data, improving data accessibility and decision-making.
- Designed and implemented predictive models using **PyTorch** and **TensorFlow** to enhance lead time forecasting and optimize inventory management, resulting in a 15% reduction in inventory holding costs.
- Architected and managed containerized **microservices** with **Kubernetes** and **Docker** for scalable big data processing pipelines, implementing **MLOps** practices to streamline model deployment and monitoring.
- Created interactive data visualizations using **Tableau** and developed responsive frontend interfaces with **React** and **JavaScript** to enhance user experience and facilitate data-driven decision-making.
- Managed backend data using **SQL**, implemented **Git** version control, and established **CI/CD** pipelines for streamlined code management, automated testing, and continuous deployment, resulting in faster release cycles.

Data Scientist

May 2019 – Apr 2021

Pago Analytics, India

- Utilized **Python** and deep learning to design resume **parsing** techniques for a Talent Acquisition Management System (TAMS), improving hiring efficiency by 30%.
- Engineered and deployed an automated hiring process using **AWS Sagemaker**. Collected and labeled 10,000+ resumes, leveraging **NLTK**, **NLP**, and **Spacy** for data analysis and model training.
- Normalized **SQL** databases, improving data handling and system performance by 2X. Collaborated with cross-functional teams throughout the development and deployment process, following **Agile** methodologies.
- Applied analytical skills and creativity in data mining and defining essential **KPIs/metrics**. Communicated data insights to stakeholders using **Power BI**, fostering collaboration and ensuring project success.

PERSONAL PROJECTS

Credit Risk Model Development and Validation

- Developed and validated a credit risk model using machine learning algorithms (**XGBoost**, **Logistic Regression**) to predict loan default, incorporating features such as credit history, income, and debt-to-income ratio.
- Implemented feature engineering techniques to enhance model accuracy and interpretability, and conducted rigorous back testing and sensitivity analysis to ensure model robustness and compliance with regulatory requirements.

Application Funnel Optimization using Predictive Modeling

- Built a predictive model to identify factors influencing user behavior throughout the application process, using **Python**, **Pandas**, and **Scikit-learn** to analyze click-through rates, bounce rates, and drop-off points.
- Developed data-driven strategies to optimize the application funnel, such as personalized user experiences, dynamic content optimization, and predictive lead scoring, resulting in a 10% increase in conversion rates.

SKILLS

Languages: Python, R, SQL, NoSQL.

Data Science: Machine Learning, Credit Risk Modeling, Application Funnel Optimization, NLP, Statistical Modeling, Predictive Analytics.

Packages/Tools: Scikit-Learn, Pandas, NumPy, NLTK, Spacy, XGBoost, PyTorch, TensorFlow, AWS (Sagemaker, RDS), Git, Tableau, Power BI.

Databases: MySQL, PostgreSQL, AWS RDS.

Statistics/ML: Statistical Analysis, Predictive Modeling, Linear/Logistic Regression, K-means Clustering, Classification, Data Mining, Decision Trees, Random Forests.

EDUCATION

BOWLING GREEN STATE UNIVERSITY, OHIO

Aug 2021 – May 2023

M.S in Data Science

- Capstone Research Project: Graph Neural Network-Based Anomaly Detection in Multivariate Time Series Sensor Data.

CERTIFICATIONS

- **Coursera:** Python and Machine Learning, Data Analytics.
- **Udemy:** Tableau, PowerBI, Django.
- **Data Camp:** Introduction to R programming and statistics in spreadsheets and Excel.