

YATISH DURGA APPANAPALLI

yatishdurgaappanapalli@gmail.com | (660) 864-4977 | LinkedIn | Portfolio

EDUCATION

Masters in Data Science with AI , University Of Central Missouri

Jan 2024 – Dec 2025

Coursework : Machine Learning, Statistics, Python, Visualization , Deep learning, NLP, Computer Vision, Data Analysis, MongoDB.

Bachelor's of Mechanical Engineering, Gujarat Technological University

Aug 2017 – Jul 2021

WORK EXPERIENCE

Data Science & AI Intern | IAPP ,New Hampshire ,USA

May 2025 – present

- Design and integration of AI governance frameworks and responsible AI development, alignment with ethical principles.
- Performing Econometric data analysis and statistical methods to extract insights, visualized through Power BI dashboards

Research Assistant, University Of Central Missouri, Kansas City, USA

Jan 2025 – May 2025

- Heartbeat Classifications R-peak detection data collection from MIT-BIH database, preprocessing and cleaning.
- Using CNN, and RNN achieves 98% accuracy with algorithms XGBoost, Random Forest, SOMTE, LSTM(Paper in review)

Data Engineer | GAVS Technology Chennai, India

Aug 2021 – Dec 2023

- Optimized Google Cloud Platform environments and ERP systems by implementing strategic resource using Airflow and data-driven decision-making, Resulted an annual cost reduction of \$45,000
- Adopted BigQuery to improve SQL queries , EDA , and develop data pipelines , Accelerating team productivity by 25%
- Served as a GCP IAM admin, managing access control systems by defining IAM policies, assigning roles, and organizing resources within a hierarchical Agile methods while utilizing Microsoft 365 effectively
- Designed and refine ETL pipelines using advanced Data Warehousing techniques, leveraging Python tools for data cleaning and error tracking.

Software Intern | Tensile Tech Bengaluru, India

May 2021 – Aug 2021

- Increased frontend development efficiency by 20% using ReactJS, HTML, CSS, and GitHub for high-quality code management. Ensured 100% responsive design compatibility across devices for seamless deployments
- Collaborated cross-functionally with designers and developers to expand team productivity, strengthened communication and co-operation abilities, Attaining 18% refinement in project delivery timelines

SKILLS

Technical Skills: Python, SQL , Machine learning , NumPy, Pandas , Scikit-learn , PyTorch, TensorFlow, Matplotlib, Streamlit ,

Core Skills: Data Analysis , Statistical Analysis , Regression , Classification , EDA , Data Gathering , Forecasting, Causal Inference,

Tools: Excel , Power BI , Tableau , AWS (DyanmoDB, IAM, SageMaker , Bedrock) , GCP(Bigquery , Cloud storage) , Teradata

ACADEMIC PROJECTS

RAG-based Q&A Agent with LangChain

- Enhanced a robust RAG Q&A agent using LangChain, ChromaDB, and Groq LLM for complex unstructured PDF queries.
- Customized prompt formats and retrieval workflows via A/B testing to significantly Improve answer accuracy.

Data Science Flashcards with AWS Integration

- Developed a flashcard-based platform using Docker containers to technical concepts, increasing engagement by 45%.
- Execution of AWS IAM for secure access control and DynamoDB for fast, scalable data storage and security of the users data.

Automated Churn Prediction Pipeline

- Deployed a scalable, end-to-end churn prediction pipeline, improving accuracy by 15%, using scikit-learn and pandas.
- Gained 22% upgrade in retention by building ETL workflows with Airflow and deploying the model on AWS SageMaker

LEADERSHIP & CERTIFICATIONS

PerplexityAI Spring 2025, Campus Strategist

- Led AI technology awareness fostered students through innovative tech outreach initiatives, workshops, AI-driven solutions.
- Completed Andrew Ng's Machine Learning course and earned the Databricks Accreditation Certificate. Also became an AWS Certified Cloud Practitioner and took part in the AWS | Impactus GenAI Hackathon.