YATISH DURGA APPANAPALLI

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EDUCATION

University Of Central Missouri, Missouri, USA Jan 2024 – Dec 2025

Master of Data science & Artificial Intelligence

Research Assistant: Working on heartbeat classification research using **machine learning**, LLMs(llama) traning, **deep learning**, assisting in data processing, model training, and performance evaluation for disease detection.

Leadership: PerplexityAI Spring 2025, (Campus Strategist)

Led AI technology awareness and student engagement through innovative tech outreach initiatives

PROFESSIONAL EXPERIENCE

GAVS Technology, Chennai, India Aug 2021 – Dec 2023

***Data Engineer**, USA Healthcare*

- Optimized **Google Cloud Platform** environments and **ERP** systems by implementing strategic resource using google **airflow** and data-driven decision-making, achieving an annual cost reduction of **$45,000**
- Adopted **BigQuery** to improve **SQL queries**, **EDA**, and develop data pipelines, boosting team productivity by 30%
- Served as a **GCP IAM** admin, managing access control systems by defining **IAM policies**, assigning roles, and organizing resources within a hierarchical Agile framework while utilizing Microsoft 365 effectively
- Designed and optimized **ETL** pipelines using advanced Data Warehousing techniques, leveraging Python tools for data cleaning and error tracking.
- Utilized SQL concepts (**stored procedures, joins, and query fine-tuning**) to achieve a 15–20% reduction in server **storage usage**
- Implemented **data quality** checks and **monitoring** using **Cloud Functions**, ensuring 99.9% accuracy in critical healthcare reports.

Tensile Tech, Bangalore, India May 2021 – Aug 2021

Software Intern

- Enhanced 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 enhance team productivity, strengthened communication and collaboration abilities, achieving a 20% enhancement in project delivery timelines
- Optimized React components and state management, reducing load times by 15% and improving overall application performance through efficient code structuring and reusable component development

TECHNICAL SKILLS & CERTIFICATIONS

Programming Languages: Python [NumPy, Pandas,Scikit-learn**,** PyTorch, TensorFlow,Matplotlib], SQL,NoSQL,MongoDB
Tools/Frameworks: Excel, PowerBI,A/B Testing, Linux, Airflow, DataBricks
Cloud Technologies: Amazon Web Services (Ec2,S3,DynamoDb,Cognito), GCP(Bigquery,IAM,Cloud storage)
Certifications: Databricks Fundamentals Accreditation, Google Bigquery Analytics, CodeBasics Data Science Bootcamp
Developer Tools: Git,VsCode, IntelliJ,JupiterNotebook,Google colab

ACADEMIC PROJECTS

Data Science Flashcards with AWS Integration Github[AWS,Data Cleaning,ReactJs,API] December 2024

- Developed a flashcard-based platform to simplify technical concepts, increasing engagement by 30%.
- Adopted **AWS DynamoDB** for real-time data storage and retrieval, improving system scalability by 45%
- Implemented **AWS IAM** and DynamoDB's OIDC to enhance data security and **scalability**, aligning with cloud-first architecture principles. Improved system reliability and access control by 25%

Bike Demand Prediction with Linear Regression Github [LinearRegression,feature engineering] October 2023

- Built a Linear Regression model to predict bike demand using historical data and key factors like temperature and humidity.
- Collected, explored, and preprocessed data, addressing missing values and outliers for accurate predictions.

Netflix Data Analysis Project Github **[**Joins,CTE,Window Functions, Grouping, Data analysis] September 2024

- Netflix's global content dataset, uncovering trends in consumption, geographic distribution, and genre popularity, drove data-driven strategies that amplified audience targeting by 35%
- Executed advanced SQL techniques, including window functions, date/time functions, to rank, filter, and categorize content, improving audience engagement strategies by 30% through comprehensive insights aggregation