Mukhil Baskaran

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EDUCATION

Georgia State University   Atlanta, GA
Bachelor of Science in Computer Science, Major in CS   ***Expected 2025***
- GPA: 3.52

EXPERIENCE

Panther Dining-Chick-fil A   September 2021 – October 2022
Student Software Assistant   *Atlanta, GA*
- Developed and deployed a stock inventory management system using Flask, HTML, CSS, and AWS, optimizing real-time inventory tracking and usage patterns within a cloud infrastructure.
- Integrated AI/ML models for enhanced stock management and utilized Power BI for strategic reporting and decision-making insights to managers, demonstrating end-to-end solutions.
- Streamlined data analysis and management using Pandas and Excel, improving forecasting and operational efficiency through cross-functional collaboration.
- Provided customer service, managing order processing and resolving inquiries, which enhanced customer satisfaction and service delivery using HTTP-based solutions.

Tech Stack: Flask, HTML, CSS, AWS, AI/ML, Power BI, Pandas, Excel, HTTP

MSV Enterprizes   Coimbatore, India
Data Science Intern - Part-time   *May 2021 – Aug 2021*
- Developed a linear regression model in R to forecast product demand, increasing sales revenue by 15% and improving forecast accuracy by 10%, thereby enhancing inventory planning.
- Created an interactive Power BI dashboard to visualize sales, products, channels, and regions, which contributed to a 5% increase in cross-selling by enabling managers to target top-selling products effectively.
- Engineered an R-based ETL process to integrate transaction data from 5 different sources into a SQL database, enhancing data processing efficiency by 20% and facilitating more effective analysis.
- Utilized R's clustering algorithms to analyze 2 years of transaction data, identifying two highest-value customer segments and reducing marketing costs by 8% through more targeted campaign strategies.

Tech Stack: R, Power BI, SQL, ETL, Clustering Algorithms

PROJECTS

Pneumonia Detection from X-ray Images | *Python, TensorFlow, Keras, OpenCV*   Jan 2024
- ∗ Developed a Convolutional Neural Network (CNN) using TensorFlow and Keras to accurately identify signs of pneumonia from chest X-ray images.
- ∗ Implemented data augmentation techniques to increase the dataset size and variability, improving the model's generalization ability on unseen data.
- ∗ Achieved over 90% accuracy in detecting pneumonia, significantly aiding in early diagnosis and treatment planning.

Madura Creation Portfolio Website(Upwork client) | *React, CSS, AWS*   Nov 2023 – Feb 2024
- ∗ Designed and developed a dynamic portfolio website for a company called Madura Creation to showcase their business services and product portfolio using React.
- ∗ Implemented responsive web design with CSS to ensure the website offers an optimal viewing experience across devices such as desktops, tablets, and mobile phones.
- ∗ Integrated interactive UI components and animations to enhance user engagement and provide a smooth navigation experience.
- ∗ Optimized website performance and speed to improve user experience and SEO rankings.

TECHNICAL SKILLS

Languages: Python, SQL (Postgres), JavaScript, HTML/CSS, R, MongoDB
Frameworks: React, Flask, JUnit, WordPress, Material-UI, FastAPI, PyTorch
Developer Tools: Git, Docker, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
Libraries: pandas, NumPy, Matplotlib, ggplot2, dplyr, tidyr, OpenCV, YOLO