

Mohammed Haneef

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EDUCATION

Saveetha School of Engineering

B.Tech in Artificial Intelligence and Data Science

Cumulative GPA: **8.34/10**

Chennai, Tamil Nadu

Oct 2021 – May 2025

WORK EXPERIENCE

Product Development Intern

March 2024 - September 2024

FocusR Technologies, Chennai, Tamil Nadu

- Engineered and enhanced over 15 front-end interfaces using **ReactJS**, **Styled Components**, and **React Hooks**, leading to a 20% increase in performance metrics.
- Revamped **authorization workflows** and established **JWT-based authentication**, securing user access for more than 1,000 users.
- Collaborated in back-end development with **NodeJS** and integrated **GraphQL** APIs for data fetching, improving data handling efficiency by 30%.
- Constructed and launched 10+ interactive dashboards using **FastAPI**, **Streamlit**, and SQL databases, facilitating data analysis and machine learning insights for business strategies.

Web Development Intern

August 2022

Vimkes Technologies, Chennai, Tamil Nadu

- Designed and implemented responsive web applications with **HTML5**, **CSS3**, and **JavaScript**, enhancing UI across 5 platforms and achieving a 15% improvement in user engagement.
- Applied best practices in front-end development, ensuring cross-browser compatibility and optimizing load times, reducing page load duration by 20%.
- Collaborated with a team of 5 to stay updated on emerging tools and best practices, including using bundlers like **Webpack** and **Gulp**, which streamlined the development process.

PROJECTS

Real-Time Stock Market Data Pipeline using Kafka | *Python, Kafka, AWS*

- Constructed a real-time data pipeline using **Apache Kafka** on **AWS**, processing live stock market data with a throughput of 10,000 messages per second.
- Integrated **AWS Glue** for data transformation and cleaning, and utilized **Amazon Athena** for real-time querying, reducing data retrieval time by 40%.
- Configured Kafka producers and brokers on **AWS EC2** to ensure high availability and fault tolerance, enhancing system reliability.

Human Action Recognition Using Vision Transformer (ViT) | *Python, PyTorch, TensorFlow*

- Developed a human action recognition system utilizing the Vision Transformer model from **Hugging Face**, achieving an accuracy of **85%** on benchmark datasets with over 5,000 samples.
- Enhanced model performance by employing data augmentation techniques, resulting in a **20%** improvement in classification accuracy compared to baseline models.
- Designed an efficient training pipeline that cut training time by **30%** while maintaining robust performance through rigorous evaluation metrics.

Spotify ETL Project using Python and AWS | *Python, AWS*

- Created an **ETL** pipeline to extract, transform, and load data from Spotify’s “Top 50 - Global” playlist, managing over 1 million records.
- Utilized **AWS Lambda** to automate data extraction and loading into S3, enabling seamless data analysis with **Athena** and reducing data processing time by 50%.

TECHNICAL SKILLS

Programming Languages: Python (Pandas, Numpy, Scipy, Matplotlib), JavaScript, SQL (MySQL, PostgreSQL, SQLite, MongoDB), R, HTML5, CSS3.

Frameworks & Libraries: PyTorch, Hugging Face, LangChain, ReactJS(Redux), Node.js, FastAPI, Django, Rest API, GraphQL, BeautifulSoup, Selenium.

Developer Tools: Git, Tableau, Power BI, Postman.

Cloud Platforms: AWS, Microsoft Azure.

Big Data: Snowflake, Spark, Hadoop, Kafka.

Machine Learning Techniques: Large Language Models (LLMs), fine-tuning techniques, Retrieval-Augmented Generation (RAG).