**SHAIK SAMEER PASHA**

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## Summary

Experienced Machine Learning Engineer and Python Developer with over 2 years in delivering AI-based solutions and full-stack web applications. Skilled in developing data pipelines, deploying predictive models, and optimizing system performance. Proven ability to drive measurable improvements in accuracy, efficiency, and cost savings using industry-standard tools and frameworks.

## Technical Skills

• Programming: Python, JavaScript

• Machine Learning: TensorFlow, PyTorch, Scikit-learn, OpenCV, YOLO, BERT, LSTM, U-Net

• Web Development: Django, Flask, FastAPI, React.js, HTML, CSS, Bootstrap, Tailwind CSS

• Database: MySQL

• Cloud Platforms: AWS, GCP

• Tools: Git, GitHub, Docker, CI/CD

## Experience

**Python Developer | CS Software Solutions**

*April 2023 – Present*

* Reduced project development time by 30% through deployment of reusable ML pipelines.
* Increased object detection accuracy by 20% using YOLOv5 and Faster R-CNN in production systems.
* Developed NLP models using BERT and LSTM, improving text classification accuracy by 17%.
* Created RESTful APIs using Flask and FastAPI, enabling efficient integration with client platforms.
* Improved web application performance by 40% by optimizing front-end and database interactions.
* Lowered cloud infrastructure cost by 15% through containerization and cloud resource optimization.

## Projects

**1. Real-Time Object Detection System (Apr 2023 – Aug 2023)**

* Developed an industrial surveillance solution using YOLO-NAS; improved accuracy by 22%.
* Reduced processing latency by 30% through data preprocessing optimization and model tuning.
* Implemented FastAPI-based interface for real-time image stream analysis.
* Technologies: YOLO-NAS, FastAPI, OpenCV, Python

**2. Digital Ad Campaign Analytics (Sep 2023 – Jan 2024)**

* Built predictive models to identify target customer segments, increasing ad conversion rate by 25%.
* Implemented clustering and regression analysis to support data-driven ad targeting strategies.
* Created a dynamic dashboard for campaign performance monitoring using React and Flask.
* Technologies: Scikit-learn, Flask, React.js, Python

**3. Medical Imaging for Limb Misalignment (Feb 2024 – Jun 2024)**

* Designed classification system with U-Net and CNN models, achieving 91% diagnostic accuracy.
* Applied transfer learning to cut training time by 35% and improve model generalization.
* Labeled and annotated over 5,000 diagnostic images for robust model training.
* Technologies: U-Net, CNN, PyTorch, Transfer Learning

**4. Sentiment Analysis System (Jul 2024 – Nov 2024)**

* Built NLP pipeline to analyze 100,000+ e-commerce reviews using BERT and LSTM architectures.
* Achieved 92% classification accuracy by enhancing data preprocessing and model tuning.
* Developed sentiment dashboard to monitor customer experience in real time.
* Technologies: BERT, LSTM, NLTK, Flask, Python

**5. E-Commerce Web Platform (Dec 2024 – Apr 2025)**

* Created a full-stack e-commerce platform with Stripe payment integration and admin dashboard.
* Reduced load times by 40% through query optimization and caching strategies.
* Deployed application on AWS EC2 using Docker, ensuring 99.9% uptime.
* Technologies: Django, React.js, MySQL, AWS, Docker, Stripe API

## Education

B.Tech in Mechanical Engineering – JNTU University, Hyderabad – 2021

Diploma in Mechanical Engineering – SBTET, Hyderabad – 2017

SSC – Board of Secondary Education, Hyderabad – 2013

## Certifications

* Machine Learning with TensorFlow – Coursera (2023)
* Advanced Python for AI & Machine Learning – Udemy (2023)

## Languages

English, Telugu, Hindi, Urdu