Kalash Tejendra Gajjar

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Junior Software Engineer | Software Developer (Python | SQL | Java) | AI/ML Engineer

Professional Summary

Motivated Software Engineering Technology – AI graduate with strong academic foundation and hands-on experience in **Backend Development, Cloud Computing, and AI/ML solutions.** Skilled in designing scalable applications, distributed systems, and secure APIs using Python, Java, and SQL, with growing exposure to Golang. Experienced in cloud platforms (AWS, Azure, GCP), data engineering pipelines, and CI/CD automation. Adapt at problem-solving, collaborating in Agile teams, and delivering impactful solutions. Seeking to contribute technical expertise in software engineering and cloud application development.

Technical Skills

- **Programming:** Python, Java, SQL, C#, .NET, React.js, Golang (beginner), Docker, Git/GitHub
- **Backend & Cloud:** API Design, RESTful Services, Microservices, AWS (EC2, S3, Lambda), Azure, GCP
- **AI/ML:** Deep Learning (TensorFlow, CNNs, EfficientNet), NLP, Computer Vision, Sentiment Analysis
- **Data Engineering:** ETL, Data Pipelines, MySQL, SQLite, MongoDB, Data Cleaning
- **Visualization & Reporting:** PowerBI, Excel, Dash, Plotly, Matplotlib, Seaborn
- **Methodologies:** Agile (Scrum), SDLC, CI/CD, Distrubuted Systems, Security & Access Control

Projects & Experience

Software Engineer (Academic & Freelance Projects)

Centennial College | 2023 – Present

Brain MRI Detection | Python, TensorFlow, EfficientNetB3

Developed a deep learning model for detecting brain MRI abnormalities. Designed and trained CNN/EfficientNet architectures and deployed the model on a cloud environment for scalability.

- Achieved 84.6% test accuracy, improving diagnostic efficiency.
- Optimized model to achieve inference time of ~0.15s per image (≈ 6-7 images/second).

Virtual Try ON for Clothes | Python, Gradio, OpenPose, MediaPipe

Developed an AI-powered virtual try-on system that allows users to visualize clothing on themselves using computer vision techniques. Implemented pose detection and garment overlay with OpenPose/MediaPipe and built an interactive interface using **Gradio** for real-time usability.

- Enabled seamless web-based interaction without the need for external front-end frameworks.
- Achieved responsive real-time performance with low latency image processing.

Mental Health Chatbot with Sentiment Analysis | Python, NLP, AWS

Built a chatbot integrated with sentiment analysis to classify user emotions and provide tailored responses. Deployed the chatbot on AWS Lambda with secured backend APIs.

- Improved classification accuracy by 20% through iterative model retraining.
- Enabled 24/7 availability with a cloud-based deployment.

Oasis Hotel Reservation Website | React.js, MongoDB, Node.js

Developed a full-stack hotel reservation application with React.js front-end and MongoDB backend. Designed secure REST APIs for user authentication, booking management, data storage, and PayPal API integration for payment interface.

- Enhanced system scalability to support concurrent reservations.

Amazon Reviews Sentiment Analysis | Python, Data Engineering, NLP
Built an ETL pipeline to process and analyse thousands of Amazon reviews. Applied NLP sentiment classification to generate actionable customer insights.

- Automated data ingestion and cleaning for large datasets.
- Delivered interactive dashboards in Power BI to support decision-making.

Education

Advanced Diploma – Software Engineering Technology (Artificial Intelligence)

Centennial College | 2023 – 2025 | GPA: 3.97/4.5

Professional Strengths

- Strong problem-solving and analytical skills in backend and AI systems.
- Effective communicator and project manager in Agile/Scrum environments.
- Adaptable learner passionate about emerging technologies (AI agents, Cloud, DevOps)