Mayur Gadekar
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LinkedIn | GitHub | Portfolio

SUMMARY

- **Results-driven AI/ML Engineer** with expertise in **machine learning, deep learning, NLP, and AI-driven applications**.
- Proficient in **Python, TensorFlow, Scikit-learn, OpenCV, and AWS**.
- Experienced in **LLM fine-tuning, AI research, and MLOps**.
- Passionate about **building scalable AI solutions, optimizing models, and deploying AI-driven applications** to solve real-world problems.
- Adept in **cloud computing, API development, and automation**, ensuring efficient and **production-ready solutions**.

EDUCATION

Ajeenkya DY Patil University, Pune **2020 - 2024**
B.E. (Artificial Intelligence and Data Science)
C.G.P.A. : 8.26

PROFESSIONAL EXPERIENCE

1. AI Prompt Engineer – Outlier (Freelance) **October 2024 – Present**
• Designing and optimizing AI-driven prompts to enhance natural language model outputs for various applications.
• Specializing in LLM fine-tuning, contextual optimization, and prompt engineering to improve accuracy and user experience.
• Collaborating with cross-functional teams to develop innovative AI solutions, ensuring high-quality and contextually relevant responses.
• Skilled in Python, NLP, and generative AI models to drive advancements in AI interactions.

2. IGurus Consultancy Services LLP (ICS) – Research Analyst **Jan 2023 – May 2023**
• Developed and optimized transliteration modules for Indian languages, focusing on Hindi.
• Applied Natural Language Processing (NLP) techniques to improve text conversion accuracy.
• Collaborated with a team to enhance AI-based language processing solutions.

3. Aller Technologies – Web Developer **Jan 2023 – Feb 2023**
• Designed and developed a Society Management System, a web-based application for residential communities.
• Implemented backend functionality using Python (Flask/Django) and front-end using HTML, CSS, JavaScript.
• Streamlined task automation and communication between residents and management.

ACADEMIC PROJECTS

1. Google Search Analysis with Python (Mar 2021 – Sep 2021)

- Developed a Flask web application that enables Google search analysis with sentiment analysis &
- keyword visualization.
- Implemented Plotly for interactive charts and integrated various data analysis techniques.

2. Predictive Maintenance for Industrial Equipment (Jan 2024 – Feb 2024)

- Built a machine learning-based predictive maintenance system to analyze industrial sensor data.
- Used Python, Pandas, Scikit-learn, TensorFlow for predictive modelling and anomaly detection.

3. Household Electricity Consumption Forecasting (Sep 2023 – May 2024)

- Developed a forecasting model for household electricity consumption using historical data.
- Incorporated smart meter readings and weather data for accurate predictions.
- Use ARIMA and LSTM machine learning model for training and increasing accuracy of neural network

4. Hand Gesture Recognition (Jan 2022 – Mar 2022)

- Implemented a real-time hand gesture recognition system using computer vision
- Techniques. Utilized OpenCV, TensorFlow, and Deep Learning for gesture classification.

SKILLS & INTERESTS

- **Programming Languages:** Python, SQL, Java, C++, JavaScript
- **Machine Learning & AI:** TensorFlow, Keres, Scikit-learn, XGBoost, LightGBM, AutoML
- **NLP & Computer Vision:** SpaCy, NLTK, OpenCV, Mediapipe, Hugging Face Transformers, OCR (Tesseract, EasyOCR)
- **Cloud & MLOps**: AWS (SageMaker, S3, Lambda, EC2, RDS), Azure (Fundamentals), Docker, MLflow, FastAPI, Flask, Kubernetes
- **Databases & Big Data:** PostgreSQL, MySQL, MongoDB, Hadoop, Spark, Redis (caching)
- **Visualization & Analytics:** Matplotlib, Seaborn, Power BI, Plotly, Tableau
- **DevOps & Monitoring:** Jenkins (CI/CD), Splunk (Performance Monitoring), Jira (Agile Workflows)

CERTIFICATIONS

- Certification in Machine Learning and Python Programming
- Microsoft Power BI - Up & Running With Power BI Desktop
- Artificial Neural Networks (ANN) With Keras in Python
- Advanced: Generative AI for Developers Learning Path
- Pursuing Machine learning course from Michigan University