RAKESH OZA

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Education

Zeal College of Engineering and Research   **Feb 2020 - June 2024**
Bachelor of Engineering - Computer Engineering; CGPA: 8.48   *Pune, India*
- Relevant Coursework: Operating Systems, Data Structures, Analysis of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases

Technical Skills

Programming Languages: Python, SQL
Data Science: Data Cleaning, EDA, Feature Engineering, Model Training, Model Evaluation
Machine Learning: Scikit-learn, TensorFlow, PyTorch, Keras
Deep Learning: Neural Networks, CNN, RNN, Generative AI
Web Development: Flask, Streamlit, HTML, CSS, Bootstrap
Tools: Git, MySQL, AWS-EC2, GCP
Soft Skills: Problem Solving, Team Collaboration, Communication

Experience

Innomatics Research Lab   **Sept 2024 - Present**
Data Science with Gen-AI Intern (Full-time)   *Pune-Hybrid*
- Developed an AI-powered code reviewer using Python and integrated LLM models, reducing manual code review time by 40%.
- Built a Diamond Price Prediction model using EDA and feature engineering, achieving 92% accuracy.
- Conducted data analysis on EV and AMCAT datasets using Pandas, Matplotlib, and Seaborn to derive actionable insights.
- Developed interactive web applications using Flask and Streamlit for deploying machine learning models.

YBI Foundation   **June 2024 – July 2024**
AI / ML Intern (Part-time)   *Remote*
- Designed and implemented machine learning models for computer vision and NLP tasks, improving model accuracy by 15%.
- Performed data preprocessing and exploratory analysis on large datasets to enhance model performance.
- Developed a Movie Recommendation System using collaborative and content-based filtering techniques.

Projects

Visionary-AI - Generative AI for Image Analysis | *Python, Streamlit, Generative AI*   **Link to Project**
- Developed an AI-powered tool for scene understanding, text extraction (OCR), and object detection in images.
- Integrated text-to-speech functionality to read aloud extracted text for better accessibility.
- Designed a user-friendly interface with Streamlit for seamless image uploads and AI-driven insights.
- Features include personalized assistance, obstacle detection, and real-time AI-generated responses.

GemPricer AI - Diamond Price Prediction Model | *Python, Streamlit, Flask*   **Link to Project**
- Built a ML model to predict diamond prices with 92% accuracy using carat, cut, color, and clarity features.
- Developed a dynamic frontend using HTML, CSS, JavaScript, and Bootstrap for user interaction.
- Integrated the ML model into a Flask backend for real-time price predictions.

Iris-Flower Species Classification | *Python, Flask, Scikit-learn*   **Link to Project**
- Performed EDA and feature selection to identify key patterns in the Iris dataset.
- Implemented a Naive Bayes classifier with 96% accuracy for species prediction.
- Deployed the model as a Flask-based web application for user-friendly interaction.

Gen-AI Code Reviewer | *Python, Streamlit, Google Generative AI*   **Link to Project**
- Integrated Google Generative AI API to provide real-time code analysis and feedback.
- Designed an intuitive UI with custom CSS to enhance developer productivity.
- Provided actionable suggestions for bug fixes, optimizations, and coding best practices.

Certifications

Generative AI: Microsoft and LinkedIn Certified
Python Programming: Certified Python Developer Association (CPDA-24)
Data Processing Specialist: AMCAT Certified (2023)
Data Science: LinkedIn Learning Certified (2023)