Rohan Talaviya

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About Me

Information Technology graduate with a solid foundation in data science and machine learning. I bring 2.5 years of hands-on experience as an Android app developer, where I honed my skills in creating user mobile applications. My journey in IT has equipped me with strong problem-solving abilities, and I am now focused on leveraging my knowledge in machine learning to tackle complex data-driven challenges. I am passionate about continuous learning and eager to contribute to innovative projects that require a blend of technical expertise and creative thinking.

Experience

DATA SCIENTIST | FITSHIELD | NOV 2024 - PRESENT

· Built, trained, and evaluated machine learning models for classification, regression, and clustering using Python and Scikit-learn.
· Designed and managed vector databases for efficient storage and retrieval of high-dimensional embeddings in AI applications.
· Implemented semantic search systems using embeddings to improve search relevance and contextual understanding.
· Developed and maintained web scraping pipelines to collect structured and unstructured data using BeautifulSoup and Scrapy.
· Performed data cleaning, preprocessing, and transformation to improve data quality and model performance.
· Conducted Exploratory Data Analysis (EDA) to identify trends, patterns, and correlations using Pandas, NumPy, and Matplotlib.

ANDROID APP DEVELOPER | KMPHITECH LLP | FEB 2022 - DEC 2023

· Developed and maintained Android apps in Java and Kotlin, ensuring successful releases on Google Play Store.
· Collaborated with cross-functional teams for seamless integration of front-end and back-end components.
· Implemented new features and enhancements to improve user engagement and performance.

ANDROID APP DEVELOPER | INBORN STUDIO | JUL 2021 - JAN 2022

· Assisted in developing Android applications using Java and Kotlin.
· Maintained and improved existing applications, troubleshooting and optimizing as needed.
· Adapted to project requirements, utilized version control systems, and demonstrated commitment to learning and growth.

Education

BACHELOR OF ENGINEERING IN INFORMATION TECHNOLOGY| JUNE 2021 | GUJARAT TECHNOLOGICAL UNIVERSITY

Skills

Programming Languages: Python, SQL

Python Libraries: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras, PyTorch, SciPy, Statsmodels

Mathematics: Linear Algebra, Calculus, Probability & Statistics

Machine Learning: End-to-End ML Algorithms & Model Development

Deep Learning: CNN, RNN, LSTM, and Transformer Models

Data Analysis & Statistics: Exploratory Data Analysis (EDA), Data Cleaning, Feature Engineering, Hypothesis Testing, Probability, Statistical Analysis

Visualization Tools: Matplotlib, Seaborn, Plotly

Databases: MySQL, PostgreSQL

Big Data: Apache Spark, Hadoop

Model Deployment: Flask, FastAPI, REST APIs

Tools & Platforms: Git, GitHub, Jupyter Notebook

Generative AI : Generative AI, Large Language Models (LLMs), Prompt Engineering, Transformers Architecture, Hugging Face Transformers, OpenAI API, LangChain, Retrieval-Augmented Generation (RAG), Fine-tuning LLMs, Vector Databases (FAISS, ChromaDB, Pinecone)

Projects

Github : https://github.com/RohanTalaviya10?tab=repositories

Kaggle : https://www.kaggle.com/work/code