HIMANSHU PARAB

Data Scientist

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SUMMARY

Data Scientist and final-year student with expertise in machine learning, data analytics, and deep learning. Proficient in Python, SQL, TensorFlow, and PyTorch. Strong problem-solving skills with a passion for innovation and real-world applications.

EDUCATION

B. Tech in Computer Science with Specialisation in Data Science

Vellore Institute of Technology　　📅 2021 - Present

EXPERIENCE

Machine Learning Engineer Intern

Quantiphi Analytics　　📅 01/2025 - Present

Working as a MLE Intern, developing AI solutions for real-world problems.
- Built deep learning models for consumer behavior analysis, vehicle number plate recognition, and sentiment analysis.
- Developed GenAI models for search relevance using NLP techniques.
- Created a CNN from scratch, performed hyperparameter tuning, and visualized metrics using TensorBoard.
- Designed a Paytm logo detection system for ICC match footage, implementing real-time video processing and cloud deployment.

Data Analyst Intern

Jindal SAW Ltd　　📅 06/2024 - 07/2024

Worked as a Data Analyst Intern, I analysed data to drive informed decision-making
- Conducted production efficiency analysis using ARIMA, statistical decomposition, and exploratory data analysis.
- Developed Python-based forecasting models and interactive dashboards using Pandas, NumPy, Matplotlib, Seaborn and Streamlit.
- Enhanced operational efficiency and reduced downtime by leveraging data-driven insights to generate actionable recommendations for improvised decision-making.

OpenCV & Python Developer Intern

PilotJi　　📅 11/2023 - 01/2024

Worked as a Computer Vision Intern, leveraging OpenCV and AWS Rekognition.
- Developed computer vision applications with OpenCV and Python for image processing.
- Utilized AWS Rekognition for facial recognition and personalized customer experiences.
- Built a personalization engine to enhance hotel CRM systems.

Software Development Intern

Remote Software Solutions Pvt Ltd (FLR Spectron)　　📅 09/2023 - 12/2023

Worked as SDE Intern, contributing to customizing applications
- Designed and customized WordPress websites, integrating themes and plugins for client needs.
- Developed a multi-file chatbot with NLP integration, enhancing user experience.
- Collaborated with cross-functional teams to improve functionality and meet performance benchmarks.

PROJECTS

InspettoVoice

Tools Used: Python, OpenCV, NLP, Google Cloud APIs, Flask, MongoDB, Next.js, TypeScript, TailwindCSS
- Developed an AI-driven web application enabling voice-guided equipment inspections, with multilingual support and real-time report generation.
- Integrated Google Cloud APIs for Speech-to-Text and Text-to-Speech functionalities, along with automatic image capture triggered by specific keywords.
- Built a responsive, user-friendly interface using Next.js and TailwindCSS, ensuring efficient technician workflow without manual data entry.

DocuSearch

Tools Used: Python, MongoDB, FastAPI, Hugging Face (BERT), Streamlit, Docker
- Built a BERT-based system for efficient, context-aware document retrieval and search.
- Integrated MongoDB with caching for optimized storage and quick retrieval of embeddings.
- Designed an interactive Streamlit UI, with a Dockerized backend for seamless deployment.

SKILLS

Python　SQL　R　TensorFlow　PyTorch　Scikit-learn　Pandas　Numpy　Matplotlib　Seaborn　AWS　Azure　LLMs　MySQL　MongoDB　Keras　NLTK　Flask　spaCy　Plotly　VSCode　Power Bi　Tableau　Git　Hadoop　Apache Spark　DataBricks　SciPy　Machine Learning　Deep Learning

CERTIFICATION

Azure Data Scientist Associate

Expert in machine learning model training, deployment, and management using Azure Machine Learning, Deep Learning and MLflow. Skilled in designing environments and implementing pipelines.

Google Data Analyst Professional

Expert in data cleaning, organization, and analysis using spreadsheets, SQL, and R. Learn to visualize and present data findings with dashboards and popular visualization tools.

IBM Machine Learning Professional

Expert in practical machine learning skills, Python recommender systems, KNN, PCA, and collaborative filtering. Skilled in predicting outcomes with neural networks, regression, and classification models.

IBM AI Engineering Professional

Expert in IBM AI tools, machine learning on Apache Spark, and neural networks with Keras, PyTorch, TensorFlow. Proficient in classification, regression, clustering, and SciPy, ScikitLearn and deep learning.

Google AI Essential

Expert in generative AI tools for developing ideas, crafting effective prompts, and enhancing task efficiency. Skilled in identifying AI biases, using AI responsibly, and staying updated with AI advancements.

TRAINING

Amazon Summer School of Machine Learning

Completed Amazon Summer School of Machine Learning, specializing in AI and deep learning applications.

EXTRA-CURRICULAR

Vice-Captain

VIT's Autonomous Underwater Vehicle Team

📅 09/2023 - Present
- Led object detection model design using OpenCV and Python as Vice Captain at VAUV, VIT, enhancing vehicle navigation with localization algorithms.

Co-Secretary

VIT Mathematical Association of Students

📅 02/2023 - 03/2024
- Served as Co-Secretary at VITMAS, a technical chapter at VIT Vellore, where I organized hackathons and various technical, and speaker events.