

AASHISH GUPTA

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EXPERIENCES

Data Scientist & AI Engineer

Quantum Leap

Dec 2023 - Present

Setúbal, Portugal (Remote)

- Leading and delivering impactful initiatives in Computer Vision Projects. Developing a system for Human Activity Recognition/Behaviour Analysis contributing to improved safety protocols and preventive measures for Retail Loss Prevention
- Engineered backend solutions to streamline and analyze incoming streams, enabling real-time irregular behaviours detection
- Led the development of a fully localized Llama-3 70B LLM model tailored for a law firm client
- Built a sophisticated chat interface allowing the client to interact with their data, facilitating quick identification of relevant documents and specific information within vast repositories of PDFs and text files

Software Engineer 1

MAQ Software

Dec 2022 - Dec 2023

Noida, India

- Spearheaded and successfully led initiatives in Retrieval Augmented Generation, contributing to advancement of content generation techniques
- Applied state-of-the-art LLMs like OpenAI's GPT3.5 & GPT4 and Llama 2 for RAG applications
- Optimized client's legacy system performance using Python, specifically leveraging NumPy and Pandas for calculations, achieving a substantial reduction in execution time from 7 minutes to 10 seconds, making application 42x faster
- Deployed end-to-end production-grade solutions on Azure, utilizing services like Function App, Web App, Cognitive Service (Search Index/Indexer), Blob Storage, SQL Databases and Speech Service
- Implemented High-Impact and robust Recommendation System handling a massive data of 1 million users

System Engineer

Tata Consultancy Services (TCS)

Aug 2021 - Dec 2022

Noida, India

- Led and executed numerous Data Analysis and Data Science Projects
- Proficient in Python development, showcasing skills in backend development for robust and scalable applications

INTERNSHIPS

Data Science Intern

VerSe Innovation

Jul 2021 - Aug 2022

Bengaluru, India

- Engaged in challenging Computer Vision endeavors, including tasks encompassing Image and Video Classification

AI Trainer

CETPA InfoTech Pvt. Ltd.

Jan 2020 - Feb 2020

Noida, India

- Educated and taught college students in their 3rd and 4th years on a wide array of AI topics

SKILLS

Technical Proficient in ML, DL, AI, GenAI, Data Science, Data Analysis, Python, Git/GitHub, MySQL, T-SQL Databases, Computer Vision, Video Analytics, NLP, RAG, EDA, C/C++, DSA, Linux, PowerBI, MLOps, Azure and AWS
Libraries PyTorch, Tensorflow, Keras, OpenCV, Scikit-Learn, NumPy, Pandas, NLTK, OpenAI, Streamlit, Flask, LangChain
Exposure C#, Java, HTML, CSS, JavaScript (ECMAScript), Mojo, Rust
Languages English, Hindi, Portuguese (beginner)

EDUCATION

Bachelor of Technology, CSE *from* Shaheed Bhagat Singh State Technical Campus (SBSSTC)

2016 - 2020

Percentage: 7.82 CGPA

PROJECTS

- **Real-Time Sign Language Detection:** Achieved a validation accuracy of 99.348% and a minimal loss of 0.03621 on ResNet102 — Dataset: [ASL Alphabet](#)
- **Human Activity Recognition:** Conducted Video Classification on two distinct massive datasets, UCF11 and UCF101. Demonstrated a robust validation accuracy ranging from 90% to 95% on ResNet102 — Datasets: [UCF11](#), [UCF101](#)

CERTIFICATIONS

- Coding Blocks - Algo++
- Coursera - Deep Learning
- CETPA - Machine Learning
- CETPA - Deep Learning
- Microsoft - Fundamental of ML
- ISOEH - Machine Learning

ACHIEVEMENTS

- [Gate 2021](#) cleared with Marks: 25.21 & Gate Score: 339
- Practiced over [190+ DSA questions](#) on various platforms