

Aman Sharma

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EDUCATION

Digital University Kerala

Master of Science, Data Analytics & Computational Science
Relevant Coursework: Parallel Computing, Deep learning, DSA

Kerala, India

August 2024 - Present

Delhi Skill and Entrepreneurship University

Bachelor of Science, Data Analytics
Relevant Coursework: Data Analysis, Python, DBMS, Machine learning, Deep learning

New Delhi, India

December 2021 - June 2024

EXPERIENCE

99acres.com - Info Edge India Ltd

Research Analyst Intern

Noida (U.P.), India

January 2024 - June 2024

- Conducted hierarchical analysis of 3000+ localities using Google Maps for accurate administrative structuring.
- Streamlined data validation and classification workflows, ensuring accuracy and RERA compliance across 10+ states.
- Supported research and operational enhancements, contributing to improved sales and user engagement.

Ministry of Statistics and Programme Implementation

Data Analyst Intern

New Delhi, India

July 2023 - August 2023

- Produced 30+ daily interactive data visualizations using BI tools, showcasing India's socio-economic and demographic statistics.
- Conducted in-depth data analysis and delivered customized visualizations for 10+ stakeholders to support decision-making
- Managed multiple projects simultaneously, ensuring timely delivery of high-quality analytical outputs.

PROJECTS

CampusBot: An LLM-powered College FAQ Chatbot | Flask, LangChain, Pinecone, Gemini API

- Built an intelligent FAQ chatbot using **RAG pipeline** with **Pinecone vector DB**, Hugging Face embeddings, and LangChain for retrieval + prompt orchestration.
- Developed a Flask-based UI and integrated Google **Gemini 2.5 Flash** for fast, context-aware responses to college queries such as admissions, courses, faculty, and facilities.

AI Ears for Infant Tears: Deep Learning-Based Analysis of Infant Cries for Early Health Diagnostics | Python, DL, Audio Processing

- Built a model to classify infant cries (healthy vs pathological) using **MFCC** features extracted via Fourier Transform.
- Conducted comparative analysis of **CNN**, **LSTM** and **DFNN** architectures; **CNN** achieved the highest accuracy for early diagnosis support.

AI-Driven Candidate Matching System | RAG, Pinecone, LangChain, Gemini, Streamlit

- Built an intelligent hiring system that screens, matches, and ranks candidates using **hybrid retrieval** (semantic vectors + **BM25** + metadata) and **LLM-based reasoning**. Automated resume parsing, job description analysis, and structured feature extraction using **Gemini 2.5 Flash**, generating transparent, explainable candidate reports.
- Implemented pipelines for **resume ingestion**, **job post processing**, and **candidate ranking**, using Pinecone for vector storage, Gemini embeddings for semantic representation, and Streamlit for an interactive UI with detailed match scores, strengths, and skill-gap insights.

Adult Census Data Analysis Dashboard | Power BI, Data Visualization

- Built an interactive dashboard in Power BI using the Adult dataset from UCI Machine Learning Repository to uncover trends in income distribution.
- Visualized key metrics across age, education, occupation, sex, and hours worked per week to support socioeconomic insight discovery.

TECHNICAL SKILLS

Languages: Python, C, SQL, HTML, CSS, JavaScript

Developer Tools: VS Code, PyCharm, Jupyter Notebook, Git, GitHub, Docker

Technologies/Frameworks: ML, DL, NLP, Generative AI, Agentic AI, LangChain, LangGraph, Flask, FastAPI, PyTorch, TensorFlow, Pyspark

Tools: Excel, Power BI, Tableau, MySQL

ADDITIONAL

Languages: English, Hindi

Soft Skills: Leadership, Teamwork, Communication, Time Management

Certification: Google Cloud Computing Fundamental, Google Cloud Data Analytics, Business Analytics With Excel (Simplilearn), PL-300 Certification - Microsoft Power BI (Udemy), Salesforce Admin (Smart Bridge), Data Science (IBM), Tata group Virtual Internship