

# 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 **DFFNN** 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