

# Manjeet Kumar | B.Tech in Artificial Intelligence & Data Science

New Delhi, Delhi, India

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## Summary

Final-year Artificial Intelligence and Data Science undergraduate with robust full-stack deployment experience. Proven track record in architecting scalable applications using AWS EKS, Docker, and FastAPI, alongside developing GenAI solutions using LLMs. Passionate about solving complex distributed systems and ML problems. Seeking to leverage skills in Python, Cloud Computing, and Data Structures to drive innovation.

## Education

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|---|----------------------------------|
| ○ <b>B.Tech in Artificial Intelligence and Data Science</b><br>Bhagwan Parshuram Institute Of Technology, New Delhi | 2022 – 2026                      |
| ○ <b>Class XII (CBSE) - Science &amp; Computer Science</b><br>Kendriya Vidyalaya No.3, Delhi Cantt                  | CGPA: 8.44/10.0<br>2021<br>86.6% |

## Technical Skills

- **Languages:** Python, JavaScript, TypeScript, SQL, HTML/CSS.
- **Frameworks & Libraries:** FastAPI, Django, Angular, Scikit-Learn, Pandas, NumPy, OpenCV, NLTK.
- **Cloud & DevOps:** AWS (EKS, Lambda, S3, SNS, Step Functions), Google Cloud Platform, Docker, Kubernetes, Nginx, Git/GitHub.
- **AI/ML:** Generative AI (LLMs), NLP, Computer Vision, Data Analysis, Model Training.
- **Databases:** PostgreSQL, MySQL.

## Experience

### Simple Solution

Full Stack Developer Intern

New Delhi

Jan 2025 – Oct 2025

- Architected a full-stack web application using **Angular** and **FastAPI**, creating a responsive frontend and high-performance RESTful backend backed by **PostgreSQL**.
- Containerized microservices using **Docker** and orchestrated deployments on **AWS EKS**, ensuring high availability and scalable infrastructure.
- Engineered serverless workflows using **AWS Lambda** and **Step Functions**, reducing idle compute costs and optimizing background processing.
- Configured **Nginx** as a reverse proxy to handle routing and load balancing, improving application security and response times.

### CantiLever

Data Science Intern

Remote

Aug 2024 – Sep 2024

- Developed an automated data collection pipeline using **Django** and web scraping libraries to aggregate competitive product data.
- Implemented data preprocessing scripts to clean raw datasets, enhancing the accuracy of downstream analysis by 20%.

## Projects

### GenAI Customer Service Bot

Python, LLMs, Streamlit

- Built a conversational AI agent using **Gemini AI**, Ollama3, and Google PaLM, capable of handling dynamic customer queries with context retention.
- Optimized model inference latency and implemented bias mitigation strategies to ensure ethical AI responses.

### Image Comparison & Analysis Tool

Python, OpenCV, Scikit-Learn

- Developed a computer vision application to analyze image similarity using Histogram, Texture (GLCM), and ORB Keypoint matching.
- Deployed an interactive UI using **Gradio**, allowing users to visualize similarity metrics in real-time.

### Personalized Movie Recommender System

Python, ML, Streamlit

- Developed a movie recommendation system using machine learning techniques to predict the best 5 movie matches most likely to be enjoyed by the user based on their historical preferences or similar user ratings.
- Utilized a dataset from Kaggle containing movie information and user ratings.

### Spam Email Detection System

Python, NLP, ML

- Trained a machine learning classifier on email datasets, achieving **97.1% accuracy** and a precision score of 1.0.
- Deployed the model via a Streamlit web interface for real-time text classification.

## Certifications & Leadership

- **Certifications:** Google Cloud Big Data & ML Fundamentals, Microsoft Azure AI Fundamentals, IBM AI Agent Architect.
- **DATAstic BPIT (Head Coordinator):** Led a team to organize technical workshops, managing logistics and sponsorship for events.
- **IEEE Member (Technical team):** Secured sponsorship for the Malhaar Fest (Nov 2023) at BPIT College; enabled participation in major technical events like Roborace, Robosoccer, Gamejam, and Valorant.
- **GDSC BPIT (Technical Team):** Facilitated Google Cloud Study Jams; mentored students on Generative AI and Cloud Computing foundations.