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

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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 — **New Delhi**
Full Stack Developer Intern — *Jan 2025 – Present*

- 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 — **Remote**
Data Science Intern — *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.

Education

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

Certifications

- **AI, Machine Learning & Data Science Certifications:** Google Cloud Big Data & ML Fundamentals | Coursera, Azure AI Fundamentals (AI-900) | Microsoft, AI Agent Architect | IBM.
- **Data Visualization & Business Intelligence:** Power BI for Beginners, Introduction to Tableau, Business Analytics Foundation | PhysicsWallah.
- **Virtual Experience & Job Simulations:** Data Analytics | Deloitte Australia, Cyber Security | Deloitte Australia.