

AKSHAT TALWAR

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New Delhi, India

EDUCATION

Guru Gobind Singh Indraprastha University

2024 – 2028

B.Tech in Artificial Intelligence and Data Science

CGPA: 8.85/10.0

TECHNICAL SKILLS

Languages: Python, SQL

ML / AI: TensorFlow, Keras, Scikit-learn, Pandas, NumPy, OpenCV, LLMs, RAG Applications, Seq2Seq, Attention Mechanisms, Transformers

Backend & Development: FastAPI, Docker, Render, Vercel, Railway, Hostinger

Automation & Tools: Langchain, n8n Workflows, Google Sheets Automation, Git, GitHub, Hugging Face

Cloud & GenAI: Google Cloud (20+ labs and skill badges), Gemini, Groq, Cloud Speech API, Streamlit

EXPERIENCE

AI Development Team Member

Aug 2024 – Present

IoSC EDC (Innovation and Software Club), GGSIPU, New Delhi

- Built and deployed AI tools as part of the club's technical team, contributing across model development, integration and deployment.
- Conducted workshops on AI/ML topics for college peers; provided guidance on projects and tooling.

PROJECTS

E-Student Cell: College Management System API

FastAPI, PostgreSQL, Hostinger

- Led backend development for GGSIPU EDC's official student cell, live at ggsipuedc.in serving 2,196 students with 2025 batch onboarding active.
- Built 54+ REST endpoints covering student profiles, academics, placements, financials, internships, NOCs and more, with role-based access control for admin and student roles.
- Designed the full database schema and handled migrations with alembic, deployed on Hostinger.

PRysm: Automated GitHub PR Review Bot

FastAPI, Docker, Hindsight, PyGithub

- Built a GitHub bot that watches for pull requests, reads the diff and automatically posts a full code review with inline comments directly on the changed lines.
- Gave the bot persistent memory across sessions using dedicated memory banks per repository, retaining facts, entities and patterns from every past review and recalling relevant context when new PRs are opened, so reviews get smarter over time.
- Deployed as a FastAPI webhook server, publicly available on Docker Hub and Render.

Context-Aware Keyboard: Next Word Predictor

TensorFlow, Keras, LSTM

- Trained an LSTM on 3M characters of Project Gutenberg text to predict the next word from a 5-word context window.
- Wrapped it in a web app on Render. Type a few words and get live suggestions.

English to Hindi Neural Translator

TensorFlow, Seq2Seq, LSTM, Transformers

- Built both a Seq2Seq LSTM and a Transformer for translation and compared how they handle long sequences, testing Bahdanau and Luong attention along the way.

- Went beyond the original scope and added self-attention, decoder masking and positional encoding to understand why Transformers work the way they do.

CERTIFICATIONS AND BADGES

Google Cloud Skills Boost (20+ hands-on labs completed)

- Develop Gen AI Apps with Gemini and Streamlit
- Prompt Design in Vertex AI
- Analyze Sentiment with Natural Language API
- Analyze Speech and Language with Google APIs
- Cloud Speech API: 3 Ways