

# Maskeen Singh

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## Education

### Bachelor of Technology in Information Technology

2022 – 2026

*Guru Gobind Singh Indraprastha University, Delhi*

- Relevant Coursework: Data Structures, Algorithms, Machine Learning, Databases, Object-Oriented Design.

## Professional Experience

### Machine Learning Engineer Intern

March 2025 – July 2025

*Aishikshak.com (Remote)*

- Brainstormed R&D for educational ML models, optimizing inference time for real-world production use cases.
- Designed and fine-tuned custom architectures using TensorFlow and PyTorch to improve prediction accuracy.
- Architected scalable ML pipelines on AWS and Azure, ensuring high availability for backend integration.
- Engineered an internal analytics dashboard using Streamlit to visualize model performance metrics.
- Optimized PostgreSQL database queries and implemented an automated feedback loop system.

### Intern

June 2024 – July 2024

*Stealth AI Startup (Remote)*

- Built and deployed backend microservices using Python (FastAPI), ensuring modularity and speed.
- Engineered an internal data dashboard that **reduced query response time by 30%** via optimized caching.
- Designed scalable Azure NoSQL schemas to handle dynamic data ingestion for the MVP.
- Collaborated directly with founders to iterate on core product features based on early user feedback.

## Projects

### KnowDeck - AI Visualization & Learning Platform

[knowdeck.me](#)

- Engineered an AI-powered Notes and Deck generator processing **3–10 million tokens** seasonally during exams.
- Scaled infrastructure to support **200+ daily active users**, delivering material endorsed by university faculty.
- Developed a 'Topic-to-Deck' pipeline using LLMs to structure complex data into multi-level slides.
- Implemented a dynamic "follow-up" feature, allowing users to interactively expand presentations in real-time.

### ErBlogX - Semantic Search Engine for Engineering

[erblogx.vercel.app](#)

- Built a high-performance search engine indexing **18,000+ engineering articles** using Sentence Transformers.
- Garnered community recognition for retrieval accuracy, including positive feedback from FAANG engineers.
- Integrated GPT-4o-mini via ZnapAI API to generate technical summaries, reducing user reading time.
- Maintained **99.9% uptime** via a robust CI/CD pipeline using GitHub Actions, Vercel, and Supabase.

### groq-fastapi & echoX

[GitHub](#)

- **groq-fastapi**: Built a high-throughput data processing pipeline utilizing Groq's LPU inference engine and FastAPI.
- **echoX**: Designed a highly interactive landing page with React.js and Framer Motion, focusing on UI/UX micro-interactions.

## Technical Skills

- **Languages**: Python, C++, JavaScript, SQL (PostgreSQL), HTML/CSS
- **Frameworks & Libraries**: FastAPI, React.js, TensorFlow, PyTorch, Scikit-learn, Streamlit, LangChain
- **Cloud & DevOps**: AWS, Azure, Docker, GitHub Actions, Vercel, Supabase
- **Concepts**: Distributed Systems, RAG (Retrieval-Augmented Generation), DSA, REST APIs