

Himanshu Shekhar

ML Practitioner | Backend Developer

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Summary

Innovative Machine Learning and Deep Learning practitioner with hands-on experience building and deploying real-world models. Skilled in creating end-to-end ML solutions, from data processing and model development to production deployment and public accessibility. Proficient in backend development, with additional exposure to Go, Python FastAPI, Java Spring. Driven by a strong interest in practical AI applications and consistently focused on delivering reliable, user-facing systems.

Skills

- **Machine learning, Deep learning, Transformers and LLMs**
- **Backend Engineering:** FastAPI, Docker, Echo-Golang
- **Programming Languages:** Python, Go, Rust, Java

Projects

1. Cerebro - A Full-stack Study Companion App

- **Learning Management:** Track course progress, completion status, and time spent on specific topics per session.
- **Productivity Tools:** Utilize a Pomodoro timer for enhanced focus.
- **Study Aids:** Benefit from interactive notes and flashcards.
- **Engagement Features:** Participate in custom challenges and maintain learning streaks.
- **Support System:** Get instant assistance with the AI Doubt Solver with history.

2. Implemented a Bash-like Shell using Rust

- **Developed essential built-in commands:** `cd`, `pwd`, `echo`, `cls/clear`, `type`, and `exit`.
- Enabled execution of external files and programs by referencing system path variables (e.g., executing scripts like `python hello.py` or running build tools like `cargo new hello`).

3. Ayursutra - A smart Panchkarma therapy scheduler

- Implemented authentication: Form based(using Session ID) and OAuth2.0(OpenID Connect).
- A RAG based chatbot that gives professional care and advice to the patient for pre and post treatment and alerts the practitioner immediately in the case of emergency using Twilio.

4. Implemented vanilla transformer from scratch

- Implemented the architecture of a transformer model from scratch as shown in the paper *Attention is all you need* in PyTorch .

Certifications

- Machine Learning Specialization Certificate – Coursera | Deeplearning.ai (2025): Implemented all the foundation machine learning algorithms from scratch. Learned Supervised Learning, Introduction to Neural Networks, Unsupervised Learning, Recommender Systems(CFA and CBFA), Reinforcement Learning.
- Deep Learning Specialization Certificate – Coursera | Deeplearning.ai (2025): Implemented Neural networks from scratch. Hyperparameter tuning, Optimization Algorithms, Computer vision, CNNs and architectures like ResNet, Inception Network, Mobilenet, YOLO, UNet, Sequence models(RNNs, GRU, LSTM, Transformers), Natural Language Processing, Speech Recognition etc.

Education

Bennett University, Greater Noida, Uttar Pradesh *CGPA: 8.25 / 10*