

Gyaanendra Prakash

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SUMMARY

Computer Science student (CGPA 8.7), finishing second year, with hands-on experience building production-grade AI/ML systems and scalable backend architectures. Developed end-to-end projects in NLP (fine-tuned RoBERTa with agentic pipelines) and computer vision (ANPR system with 99.49% mAP@50), alongside optimising high-performance REST APIs. Comfortable across the full stack—from model training to deployment. Seeking an AI/ML internship at a fast-moving startup where I can build, iterate, and ship real-world intelligent systems.

SKILLS

Languages: JavaScript, Python, Java, C++

AI / ML: PyTorch, TensorFlow, scikit-learn, Keras, NumPy, Pandas, Matplotlib, SciPy, Streamlit

Frontend: React, Next.js, Astro, React Native, TailwindCSS, jQuery

Backend: FastAPI, Flask, Express.js, REST API Design, Docker, Firebase

Databases: PostgreSQL, Firebase Firestore **Tools:** Git, GitHub, Bash, Markdown, ESP32

EXPERIENCE

Backend Intern *Ezlearn* *Apr 2025 – Sep 2025*

- Refactored API architecture across multiple Django endpoints by splitting responsibilities and stripping redundant response fields, cutting average response time from 20–25s to under 1.2s.
- Re-engineered the course purchase flow by consolidating checkout logic into a unified pipeline, reducing steps from 4 to 2 and improving conversion rate.
- Audited high-traffic routes by profiling endpoint response times and eliminating N+1 query patterns against a PostgreSQL database hosted on GCP Cloud SQL, improving overall API reliability and server stability.

App Development Intern *nexCraft* *Jan 2025 – Mar 2025*

- Implemented email and password authentication from scratch by building signup, login, and session handling flows in React Native.
- Designed and developed a 3-screen onboarding flow by translating requirements into UI components with navigation state management.

PROJECTS

Fake News Classifier github.com/Gyaanendra/AI-ML-PROJECT-CSET312

- Fine-tuned RoBERTa with a custom MLP fusion head using a 60/40 weighted ratio for robust fake news classification, trained on a benchmark corpus dataset.
- Integrated an AI agentic system to automate data augmentation and evaluation, benchmarking on both LLM-augmented and non-augmented datasets with measurable gains in accuracy and F1-score.
- Built an end-to-end ML pipeline covering data preprocessing, tokenization, model training, and evaluation metrics.

KnightSight EdgeVision — ANPR Pipeline github.com/Gyaanendra/deepsight-sapiens

- Built a two-stage ANPR pipeline using a custom fine-tuned YOLOv11n plate detector achieving **99.49% mAP@50** with only 2.6M parameters, outperforming a 25M parameter medium model.
- Implemented dual OCR engines (Fast-Plate-OCR at ~5ms + GPT-4o-mini fallback), CLAHE night vision enhancement, and ONNX export for edge inference at ~6ms per frame.
- Deployed an interactive Streamlit dashboard on Hugging Face Spaces supporting real-time image and video inference with GPU acceleration and configurable detection thresholds.

CERTIFICATIONS

Ultimate Guide to FastAPI and Backend Development <i>Packt · Coursera Specialization (3 courses)</i> Covers REST API design, database management, authentication, async programming, and cloud deployment.	<i>Mar 2026</i>
Fundamentals of Building AI Agents <i>IBM · Coursera</i> Covers AI agent design, tool use, planning, memory, and multi-agent orchestration frameworks.	<i>Feb 2026</i>
Introduction to Deep Learning & Neural Networks with Keras <i>IBM · Coursera</i> Covers neural network fundamentals, backpropagation, CNNs, RNNs, and model building with Keras.	<i>Mar 2026</i>
Machine Learning with Python <i>IBM · Coursera</i> Covers supervised & unsupervised learning, regression, classification, clustering, and model evaluation.	<i>Dec 2024</i>

EDUCATION

Bachelor of Technology in Computer Science Engineering (Second Year) Bennett University CGPA: 8.7 / 10	<i>2024 – 2028</i>
Senior Secondary (CBSE) – 86.6% Government Model Senior Secondary School Sector 35-D	<i>2022 – 2024</i>
Secondary (CBSE) – 88.8% Manav Mangal Smart School	<i>2010 – 2022</i>