

Arnav Kamra

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SUMMARY

Computer Science student (CGPA 8.67) with hands-on experience in backend development, CI/CD pipelines, API-driven systems, ML model evaluation, and RAG/LLM pipelines. Comfortable with Git, Linux, Docker, PostgreSQL, and Grafana. Keen to apply automation and AI-assisted workflows to software development, testing and validation.

WORK EXPERIENCE

Prepzzr

May 2025 – Aug 2025

SDE Intern

- Built Prepzzr's backend and platform architecture from the ground up, designing the database schema and implementing a Retrieval-Augmented Generation (RAG) pipeline to power AI-driven features.
- Owned backend development, third-party API integration, and deployment end to end for real users.

PROJECTS

DevDoq | RAG, LLMs, Vector Search, CI/CD

- Built a documentation management platform with a scalable backend for engineering teams, integrating RAG and LLMs for context-aware querying and summarization of technical content.
- Implemented vector search and role-based access at the data layer for secure, fast document retrieval.
- Set up CI/CD pipelines for automated, reliable deployment and smooth team collaboration.

Telecom Customer Churn Prediction | Python, Scikit-learn, XGBoost, PyTorch

- Built an end-to-end ML pipeline in Python/Jupyter on the IBM Telco dataset (7,043 customers): data cleaning, feature engineering, encoding, and SMOTE to handle class imbalance.
- Engineered six composite features (e.g., contract risk, average monthly spend); three ranked in the top five by importance.
- Trained and compared five model families (Logistic Regression, Random Forest, Gradient Boosting, XGBoost, custom PyTorch neural network), validating results with cross-validation and ROC-AUC.
- Tuned a Random Forest with GridSearchCV to a cross-validated ROC-AUC of 0.9244 ± 0.0070 ; added a soft-voting ensemble.

DeHost | IPFS, Blockchain, CLI | 1st Place, Hackathon

- Built a decentralized web hosting platform on IPFS and blockchain with distributed storage, cryptographic encryption, and ENS domain integration.
- Added AI-driven website generation, CLI-based deployments, and custom domain support.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, C++, C, SQL, HTML

Automation & DevOps: Git, CI/CD, Jenkins, Docker, Kubernetes, Linux/Unix, Nginx, Grafana, Portainer, AWS, GCP

Databases: PostgreSQL, SQL, Supabase, Firebase

AI/ML: Machine Learning, Deep Learning, NLP, RAG, LLMs, Scikit-learn, PyTorch, Statistical Modeling, Jupyter Notebook

Backend, Web & Mobile: Node.js, Express.js, FastAPI, REST APIs, React.js, Next.js, Astro, Tailwind CSS, React Native

CS Fundamentals: Object-Oriented Programming, Data Structures & Algorithms, OS, DBMS, Networks, Distributed Systems

EDUCATION

VIT University

B.Tech in Computer Science and Engineering, CGPA: 8.67 (till 6th semester)

Chennai, Tamil Nadu

Expected July 2027

K.D Ambani Reliance Foundation School

Std 12: 81% | Std 10: 97%

Jamnagar, Gujarat

May 2023 | May 2021

CERTIFICATIONS

AWS Certified Cloud Practitioner · Meta Full-Stack Developer · Harvard CS50

Cisco Networking Academy: Networking Basics · Network Support & Security (Aug 2024)

ACHIEVEMENTS

- Won multiple hackathons, including 1st place (DeHost) and 3rd place out of 550 teams at VIT Smart India Hackathon.
- Represented district at state-level football twice; top positions in National Cyber Olympiad (NCO) and Kidovators.