

# Anoopchandra Parampalli

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## Professional Summary:

Graduate student in Applied Machine Intelligence with a 3.86 GPA and hands-on experience delivering end-to-end AI/ML solutions. Skilled in Python, PyTorch, cloud deployment, and full-stack development. Passionate about building reliable, production-grade models and APIs.

## Education

Northeastern University, Boston, MA

Expected July 2025

MS in Applied Machine Intelligence

NMAM Institute of Technology, Nitte, Karnataka, India

November 2022

B.E. in Electronics and Communications

## Internships:

AI Engineer Intern, Legalrescue.ai (Remote)

Apr 2025 - Present

- Architected and built a horizontally scalable FastAPI backend with Redis (Elasticache) and Postgres (RDS) on AWS EKS, achieving <1s latency and 99%+ uptime.
- Developed async LLM pipelines for speech-to-text, classification, and autofill, with Celery background summaries.
- Engineered robust Redis session management enabling seamless autoscaling (1–100 pods), failover, and zero session loss.
- Built a Next.js frontend wizard with voice/text intake, step-by-step review and editing, secure Google OAuth2 login, and persistent user session history.
- Automated Docker/Kubernetes deployment and CI/CD with GitHub Actions and AWS monitoring.

Data Analyst Intern, J Healthcare Initiative (Remote)

Jan 2025 - Mar 2025

- Analyzed 25k+ state/national overdose records; built 3 Tableau dashboards visualizing trends across 10+ counties.
- Proposed a data-driven intervention roadmap projected to increase outreach effectiveness by 20%.

## Projects

Audio Genre Classification (Transformer + FastAPI + React):

- Processed FMA-Small (8k 30 s clips) into log-mel spectrograms (Librosa).
- Achieved 85% test accuracy with a PyTorch Transformer; used SpecAugment (+12% regularization) and AMP (+50% speed).
- Served inference via Dockerized FastAPI on AWS Elastic Beanstalk; 100+ daily requests.
- Built React.js SPA, hosted on S3 + CloudFront with ACM SSL for audioclassifier.cc.

Retrieval-Augmented Generation (RAG) Model for Pandas Library Documentation Querying:

- Implemented ingest & retrieval over 3k-page Pandas docs using sentence-transformers & FAISS.
- Achieved 90% answer relevance; added guardrails to enforce API usage constraints.
- Exposed REST endpoint (/query) with FastAPI.

Chain-of-Thought LLM for Stock Price Movement Predictions

- Collaborated with a cross-functional team to ingest and process financial data from multiple APIs, storing in MongoDB time-series collections.
- Experimented with different chain-of-thought lengths for GenAI-driven predictive modeling, achieving 20% improved accuracy on short-term price trends.
- Integrated automated scripts to transform data, generate textual prompts, and monitor net profit outcomes for recommended trades, increasing productivity by 50%.

## Skills

- Programming: Python, SQL, C++, React.js, Bash
- AI/ML & Data: PyTorch, TensorFlow, Scikit-learn, Hugging Face, Explainable AI, GenAI
- Cloud & Devops: AWS (S3, Cloudfront, Beanstalk, ACM, EKS), Docker, Kubernetes, CI/CD, FastAPI
- Big Data & Databases: Pyspark, Hadoop, MongoDB, PostgreSQL, Redis, FAISS
- BI & Data Visualization: Tableau, Matplotlib, Seaborn, Plotly, Folium