

# Chandana Pamidi

## AI Engineer

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### Summary

**AI Engineer with around 4 years of experience** designing and deploying machine learning models, NLP solutions, and AI-driven systems across financial and consumer electronics sectors. Proven track record in developing scalable AI solutions, enhancing model performance, and collaborating with cross-functional teams to deliver high-impact business results. Adept in Python, deep learning frameworks, MLOps tools, and cloud-based AI services. Strong focus on delivering production-grade AI systems aligned with business KPIs.

### Experience

#### Fidelity Investment, USA | AI Engineer

June 2024 - Current

- Designed and deployed deep learning models for financial time-series forecasting, improving prediction accuracy by 19% using LSTM and Transformer-based architectures.
- Led the development of an NLP pipeline using BERT for document summarization and entity extraction, reducing manual analysis time by 60%.
- Spearheaded the migration of legacy ML workflows to a modular, reusable pipeline framework using Kubeflow, reducing model deployment time by 40%.
- Implemented CI/CD pipelines using Jenkins and MLflow for streamlined model lifecycle management and automatic retraining.
- Used GCP Vertex AI for A/B testing of multiple models, accelerating model experimentation and deployment decisions.
- Improved model drift monitoring using custom alerting systems via Prometheus and Grafana, increasing system reliability and reducing false positives by 30%.
- Built explainable AI dashboards with SHAP and LIME to ensure model transparency for risk modeling use cases.
- Collaborated with compliance and legal teams to meet regulatory requirements, integrating bias detection tools and fairness metrics into production pipelines.

#### Intex Technologies, India | AI Engineer

Aug 2020 - Dec 2022

- Developed computer vision solutions for defect detection in consumer electronics using OpenCV and YOLOv4, increasing QA throughput by 35%.
- Designed an OCR-based solution using Tesseract and Deep Learning to automate invoice and warranty form processing, reducing manual effort by 70%.
- Automated text analytics on customer reviews using spaCy and sentiment classification models, reducing customer service handling time by 22%.
- Built a scalable recommendation system for product cross-sell using collaborative filtering and boosted decision trees.
- Conducted hyperparameter tuning and performance benchmarking using Optuna, improving classification F1 scores by 18% across key use cases.
- Collaborated with hardware and IoT teams to ingest sensor data and run predictive maintenance algorithms on device telemetry.
- Created internal dashboards in Tableau for presenting real-time AI insights to product and business stakeholders.
- Established and drove a knowledge sharing framework to align the team on AI workflows, GitOps, and reproducible experimentation techniques.

### Skills

**Methodologies:** SDLC, Agile, Waterfall.

**Programming Languages:** Python, SQL, Java (basic), Bash

**Frameworks & Libraries:** TensorFlow, PyTorch, Keras, Scikit-learn, OpenCV, NLTK, spaCy

**Tools & Platforms:** MLflow, Docker, Kubernetes, Git, Jenkins, FastAPI, Flask

**Cloud & DevOps:** AWS (SageMaker, EC2, S3), GCP, Azure ML, REST APIs

**Databases:** MySQL, PostgreSQL, MongoDB, Redis

**Machine Learning:** Supervised & Unsupervised Learning, Model Optimization, Feature Engineering

**Deep Learning:** CNNs, RNNs, LSTM, GANs

**NLP:** Named Entity Recognition, Text Classification, Sentiment Analysis, LLM Prompting

**MLOps:** CI/CD for ML, Model Monitoring, Data Versioning

**Other Tools:** JIRA, Confluence, Tableau, Power BI

**Operating System:** Windows, Mac, Linux.

### Education

#### Master's in Computer Science

University of Massachusetts Amherst, Amherst, MA

#### Bachelor's in Information Technology

Jawaharlal Nehru Technological University Kakinada, India