VENKATALAKSHMI KOTTAPALLI

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SUMMARY

AI/ML Engineer with 4 years of experience developing intelligent systems, chatbots, and ML models using Python, SQL, and cloud platforms, seeking impactful opportunities in AI-driven product development.

EDUCATION

Master's in Artificial Intelligence, Yeshiva University, New York City, NY

GPA: 4.0; Expected Dec 2025

Relevant Courses: Machine Learning, Data Science, Neural Networks & Deep Learning, NLP, Cloud Computing

Bachelor's in Mathematics, Adikavi Nannaya University, India

GPA: 3.8; June 2015 - May 2018

Relevant Courses: Statistics, Probability, Linear Algebra, Matrices, Calculus, Geometry

SKILLS

- Programming Languages: Python, SQL, R, Cypher
- Machine Learning & AI: Supervised Learning, Unsupervised Learning, Deep Learning, Neural Networks, NLP, Computer Vision, LLMs, Transformers, RAG, AI Agents, Model Deployment
- Frameworks & Libraries: Scikit-learn, PyTorch, TensorFlow, Keras, OpenCV, NLTK, LangChain, LangGraph
- Databases: PostgreSQL, MySQL, Neo4j, NoSQL, FAISS Vector Database
- Cloud, API & DevOps: AWS, GCP, Azure, Heroku, Streamlit, Flask, REST APIs, CI/CD
- Data Tools: Jupyter, Visual Studio Code, Power BI, GitHub, Azure DevOps, A/B Testing, Data Visualization

WORK EXPERIENCE

Machine Learning Co-op, ZSAnalytics LLC

May 2024 - Present

- Enhanced email campaign performance by 35% by applying ML models in Python with advanced feature engineering, SQL, and data wrangling to identifying top 25% responsive subscribers from a 10K database
- Created Power BI dashboards visualizing engagement metrics, delivering actionable insights that improved stakeholder decision-making efficiency by 40%

Software Developer (AI/ML), Mee Sahayakaari

Jan 2019 - Dec 2021

- Developed an AI voice chatbot serving 5,000 non-literate users with 90% satisfaction, integrating Dialogflow, Google Translate, and speech APIs for multilingual support
- Built cross-platform Ionic applications, optimized API performance, reducing latency by 40% and increasing user retention by 30%

PROJECTS

- Al Agent: Built LLaMA-powered agent using LangChain and LangGraph to automate order processing, account checks, and inventory management, reducing manual work by 60%
- RAG-Based Chatbot: Built a retrieval-augmented chatbot using Gemma LLM and FAISS vector search, delivering citation-backed answers from the Speech and Language Processing textbook with 95% accuracy
- Fraud Detection: Built ML pipeline using Python and SQL, achieving 96% accuracy in fraud detection
- Customer Segmentation: Built a data pipeline & used clustering to identify customer groups for marketing.
- Customer Churn: Built churn model using Scikit-learn with 95% accuracy and deployed API with CI/CD

LEADERSHIP & ACTIVITIES

Al Teaching Assistant, Yeshiva University, NY

Assisting in AI projects and research, focusing on Large Language Models (LLMs) and GenAI

ACHIEVEMENTS

- Certificate of Excellence in Machine Learning Awarded for an innovative fraud detection project
- Research X-ray Detection using CNN, Bird Sound Segmentation, generating images using CycleGANs