

Krishnakumar Vijayasankar

Email: krishkypersonal@gmail.com | Phone: +16173187783 | LinkedIn: [@in/krishkv](#) | Github: [@krishkdev](#)

SUMMARY

Passionate Software Developer with great problem-solving skills having experience at Ford and a Master's in Applied AI. Skilled in building scalable applications and developing end-to-end AI/ML solutions, bridging coding best practices with advanced machine learning to deliver impactful real-world systems.

EDUCATION

Masters in Applied AI | Northeastern University, Boston, MA | *September 2025 – Present*

- **Relevant Subjects:** Applied AI, NLP, CV, Deep Learning, Neural networks etc.

Bachelors in Information Technology | Sri Krishna College, Coimbatore, IN | *September 2019 – March 2023*

- **Relevant Subjects:** Data Structures, Algorithms, Computer networks, DBMS etc.

WORK EXPERIENCE

Software Engineer | Ford Motor Company, Chennai, IN | November 2023 - August 2025

- Developed scalable web applications using **Google cloud**, **Spring Boot**, and **Angular**, enhancing maintenance workflows for thousands of internal clients.
- Built internal tools and eliminated third-party dependencies, resulting in **\$10K+ annual cost savings**.
- Designed, maintained Collections and published secure RESTful APIs to app servers, enabling seamless integration via **API Gateway**.
- Streamlined DevOps pipelines using **Tekton**, **Jenkins**, **SonarQube**, **FOSSA**, and **Checkmarx** to improve code quality and deployment reliability.
- Deployed microservices on **GCP Cloud Run**, leveraging **Docker** and **CI/CD** best practices for cloud-native performance.

PROJECTS

- **Real-Time Recipe Recommendation System (Computer Vision):**
 - Built a CV system to detect ingredients from images and recommend recipes ranked by user health goals (fat loss, muscle gain, maintenance).
 - **Impact:** Reduced food waste, supported healthy eating.
 - **Tech Stack:** Python, TensorFlow, OpenCV, Flask
- **AI-Driven Mental Health Risk Detection (NLP):**
 - Developed an NLP-based system that analyzes social media engagement patterns to identify unhealthy behaviors and recommend wellness interventions.
 - **Impact:** Early detection of mental health risks and wellness recommendations.
 - **Tech Stack:** Python, PyTorch, Hugging Face Transformers, NLTK
- **Personal Portfolio** - Did using plain HTML,CSS,Javascript to enhance my online presence
- **Intelligent Knowledge Assistant (LLM + RAG)**
 - Implemented a RAG-based QA system that retrieves domain-specific documents and generates grounded, citation-backed answers using LLMs.
 - **Impact:** Reduced hallucination, improved explainability and productivity.
 - **Tech Stack:** Python, LangChain, FAISS, GPT-4, Streamlit/FastAPI

TECHNICAL SKILLS

- **Programming & Frameworks:** Python, Java, SQL, JavaScript, C++ (cuda), Angular, Spring boot, FastAPI
- **Machine Learning & AI:** PyTorch, TensorFlow, Scikit-learn, Hugging Face Transformers, LangChain
- **Data & Cloud:** Pandas, NumPy, Spark, GCP, Docker, FastAPI, Streamlit
- **Databases:** MySQL, MongoDB, FAISS, Pinecone, Elasticsearch