# Srivardhan Muthyala

srivardhanmuthyala111@gmail.com | +1 647-631-7328 | https://www.linkedin.com/in/srivardhan-muthyala-159860278 | Toronto, ON M4M 1V6

**CAREER OBJECTIVE** Passionate Machine Learning Engineer with over 3 years of experience in building and deploying scalable machine learning systems and infrastructure. Expertise in creating "Machine-Learning-as-a-Service" platforms, deep learning frameworks, and model prediction services. Seeking to join Faire as a Staff Engineer to drive innovation in ML deployment and enhance marketplace efficiency through data-driven solutions.

**TECHNICAL SKILLS**

* **Programming and Development**: Python (3+ years), Java, C++, C#
* **Machine Learning and AI**: Deep Learning, Natural Language Processing (NLP), Model Deployment, ML prediction services, Feature Store (batch and real-time), TensorFlow, PyTorch, Keras, Hugging Face, scikit-learn, NumPy, Pandas
* **Infrastructure and Backend**: Microservices Architecture, Scalable Systems Design, Cloud Platforms (Azure, AWS), Model Inference and Monitoring
* **DevOps and CI/CD**: Jenkins, Git, Docker, Kubernetes, CI/CD Pipelines
* **Project Management**: Agile Methodologies (Scrum, Kanban), Jira

**CERTIFICATIONS**

* Machine Learning Certification by Stanford University, 2023
* IBM Artificial Intelligence Engineering Professional, 2023
* Microsoft Azure AI & NLP Certifications, 2023

**PROFESSIONAL EXPERIENCE**

**Programmer Analyst** Cognizant Technology Solutions, Hyderabad, India *November 2019 - January 2023*

* Designed and deployed scalable machine learning models using Python and deep learning frameworks (TensorFlow, PyTorch), achieving 98% accuracy.
* Collaborated on backend development using .NET and MVC, optimizing system performance for enterprise-level clients.
* Developed automation solutions using Python and Bash, increasing development efficiency by 30%.
* Implemented microservices architecture to support AI-based solutions, enhancing modularity and scalability.

**SELECTED PROJECTS**

* **Automated Image Recognition Pipeline** (AWS, 2023): Led the development and deployment of a real-time image recognition system using deep learning models and DevOps practices on AWS, achieving 98% accuracy. Improved scalability and reduced processing time by 40% through optimized model inference techniques.
* **AI-Driven Customer Recommendation System** (Azure, 2023): Developed a machine-learning-based recommendation engine for an e-commerce client, utilizing collaborative filtering and deep learning to provide personalized product recommendations with 98% accuracy, increasing user engagement by 25%.
* **Spam Filtering Algorithm Using NLP** (Azure, 2023): Created a real-time spam filtering system utilizing advanced NLP techniques, achieving 97% classification accuracy.
* **Fraud Detection System Using Machine Learning** (Python, 2022): Engineered a fraud detection model using ensemble methods and anomaly detection algorithms to identify fraudulent transactions.
* **NLP-Driven Movie Review Analysis** (Python, 2023): Developed a sentiment analysis system for movie reviews using NLP techniques and Transformer models.
* **Live Translation (Speech-to-Speech AI)** (Deep Learning, 2023): Created an end-to-end AI-powered speech-to-speech translation tool using deep learning models for real-time language translation.
* **Detection and Grading of Macular Edema Using CNN** (Deep Learning, 2020): Designed and implemented a CNN-based model for medical image analysis to detect and grade macular edema, achieving 98% accuracy, which was published in the International Journal of Innovative Research in Technology (IJIRT).
* **Real-Time Crypto Price Prediction Using AI and CUDA Acceleration** (Python, 2023): Developed a predictive model for real-time cryptocurrency price forecasting using deep learning and CUDA acceleration.

**EDUCATION**

* **Post-Graduation in Advanced Project Management and IT** Toronto, Canada, 2023
* **Bachelor of Engineering in Electronics and Communications Engineering** Anna University, Chennai, India, 2020

**PUBLICATIONS**

* "Detection and Grading of Macular Edema Using CNN," International Journal of Innovative Research in Technology (IJIRT), 2020

**ACHIEVEMENTS**

* Shortlisted in TechNation’s AI Competition 2024 for an AI-driven energy optimization project using Q-learning algorithms.