Taguhi Yenokyan

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EDUCATION

University of California San Diego Expected Graduation: June 2027
Master of Science, Computer Science — *Focus: Machine Learning & Artificial Intelligence*
California State University, Northridge Graduated: May 2025
Bachelor of Science, Computer Science

PROFESSIONAL EXPERIENCE

California State University, Northridge | Research Assistant January 2025 - June 2025
- Built and optimized EfficientNet and DenseNet models on 5,000+ medical images, achieving 90% accuracy
- Architected database schemas to store data collected from experiments and built interfaces to enable quick storage, retrieval, and processing of measurements

Boston Scientific | Software Engineering Intern May 2024- August 2024
- Automated the collection of 10,000+ documents, leveraging a NoSQL database for faster queries and scalable storage
- Designed and implemented a preprocessing pipeline for document parsing, optimizing data readiness for AI training
- Trained and deployed an AI model with MLflow, integrated into a UI to enhance data accessibility and document management

Verizon | Data Science Intern August 2023- December 2023
- Developed machine learning models for IoT network failure prediction, reducing downtime by 25%
- Optimized parallel computing and distributed data processing, improving efficiency by 30%
- Engineered Python-based automation scripts to optimize feature engineering and real-time data processing
- Designed and optimized distributed microservices architectures, utilizing Docker, Kubernetes, and AWS EC2

PROJECTS EXPERIENCE

ASLConverter | *Machine Learning, Deep Learning| Python* October 20254 - May 2025
- Implemented a CNN-based ASL translation system for 11M+ users, optimizing feature extraction, image processing, and real-time hand gesture detection
- Built a preprocessing pipeline for 1000+ images per letter under varied conditions, collaborating with a 4-person team to deliver ASL-to-speech and text conversion
- Created a PostgreSQL-based structured data storage system to manage 1M+ image samples

Brain Tumor Detection | *Machine Learning, Deep Learning | Python* September 2024 - May 2025
- Developed a CNN model for brain tumor segmentation and classification, enhancing segmentation accuracy by 10% and reaching an accuracy goal of over 80%
- Deployed a preprocessing pipeline for 3,000 MRI images to normalize, resulting in improved model reliability
- Mentored non-software developers to actively contribute to the codebase

NASA's LSpace Academy & Autonomy Research Center (ARCS) September 2023 - August 2024
- Led a team of 5 in NASA's LSpace Academy to research NLP-assisted verification challenges in avionics software, proposing solutions that reduced verification time by 40% and increased reliability by 30%.
- Supervised a 6-member subteam for NASA's ARCS Mars Helicopter Project, enhancing SLAM-based state estimation to boost localization accuracy by 15% and navigation efficiency by 20%.

Google Kaggle New York Botanical Garden Competition | *Team Leader* January 2024 - April 2024
- Led a team of 4 to develop a deep learning pipeline for plant identification, processing a 7.8M-image dataset to identify 500+ species with an 85% accuracy rate, increasing accuracy by 15%

LEADERSHIP

Girls Who Code | *Leadership Academy Fellow* August 2024 - December 2024
- Led a team of 3 researching challenges faced by the homeless, using Python visualizations to improve healthcare access

California State University Northridge | *Math Tutor* February 2023 - May 2025
- Tutored groups of 3-15 students in Linear Algebra and Advanced Probabilities, applying targeted problem-solving techniques

TECHNICAL SKILLS

Languages: Python, C/C++, Java, SQL, JavaScript, HTML/CSS
ML/AI/Cloud: TensorFlow, PyTorch, Keras, Scikit-learn, Computer Vision, NLP, MLflow, Hugging Face
Data & Software: MySQL, NoSQL,Word, Excel, Power Point, Git, Jira, Github, Linux, Bash, PowerShell, LAN/WAN