KAUNG MYAT KYAW

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EDUCATION

Master of Science in Computer Science, University of Colorado Boulder **Expected 2025**

Unweighted GPA: 4.0

Relevant Coursework: Machine Learning, Deep Learning, Data Mining Pipeline, Generative AI, Big Data Software Architecture, Database Systems, Robotics Systems

SKILLS

Technical Skills: Python, C++, JavaScript, Java, SQL; MongoDB, DynamoDB; PyTorch, TensorFlow, Keras, Scikit-learn, Hugging Face Transformers, OpenCV, NumPy, Pandas, Matplotlib; LangChain, Git, Docker, REST APIs, GraphQL; AWS (EC2, S3, SageMaker), CI/CD.

ML & Systems Expertise: Machine Learning, Deep Learning, NLP, Computer Vision, MLOps, Model Deployment, Containerization, Data Engineering, Feature Engineering, Distributed Training, Hyperparameter Tuning, Model Evaluation (Precision, Recall, ROC, AUC), System Design, Scalable Architecture, Latency Optimization.

Soft Skills: Problem Solving, Technical Communication, Cross-functional Collaboration, Ownership, Agile Development, Time Management, Critical Thinking, Fast Learning.

EXPERIENCE

Software Engineer (Volunteer) Jan 2024 – Present

Democratic Burma, Washington DC

- Migrated the organization website from Webflow CRM to Next.js, reducing load time by 40% and improving maintainability.
- Redesigned the whole UI for better accessibility and readability, increasing visitor engagement by 30%.
- Built a volunteer recruitment platform integrated with dynamic forms and submission tracking using React, Tailwind, and MongoDB.
- Led development of *"Flow State App"*, a full-stack Pomodoro and meditation tool for children in Myanmar IDP camps; introduced task-linked focus cycles not supported by most productivity apps.

PROJECTS

Flow State App *NextJS, ReactJS, Vercel, MongoDB*

Designed and deployed a full-stack productivity app combining Pomodoro timer, meditation, and task-linked focus cycles, tailored for displaced students in Myanmar IDP Refugee camps. Used static generation and cloud deployment with CI/CD via GitHub and Vercel.Supported 100+ users; aimed to enhance focus, engagement, and mental health using behavioral reinforcement loops.

Customer Segmentation with Unsupervised Learning *Python, scikit-learn, Matplotlib, Seaborn*

Segmented customers in an online retail dataset using K-Means and Hierarchical Clustering; applied EDA, outlier detection, transformation, and standardization; tuned hyperparameters using Elbow and Silhouette methods to identify meaningful clusters for business insights. Engineered features and removed outliers to boost cluster interpretability by 50%. [Github]

Lung Cancer Detection (CT Image-Based) *SVM, ANN, Random Forest, scikit-learn, Kaggle*

Trained multiple supervised models on lung CT scan data to assist physicians in early cancer detection. Achieved 99% accuracy with SVM; documented full model evaluation in published report. Compared models using ROC and precision-recall; aimed to reduce clinical turnaround time. [Github]

BBC News Classifier with Supervised and Unsupervised Models *Python, SVC, K-Means, NMF*

Built a news classification system trained on the BBC dataset using both supervised (SVC: 98.5% accuracy) and unsupervised (NMF: 95.5% accuracy) methods. Preprocessed and vectorized news articles to categorize into business, politics, tech, and sports. [Github]

Personal Portfolio Website *Next.js, React.js, Vercel, CI/CD*

Built and deployed a fully static, SEO-optimized developer portfolio site with custom project showcase and continuous deployment. [Github]

Certification: *Machine Learning Engineering for Production (MLOps)*, DeepLearning.AI [Link]