VARUNTEJ KODANDAPURAM

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EDUCATION

College of Engineering, Michigan State University, East Lansing, MI Aug 2023 – Dec 2024
Master of Science, Computer Science GPA: 3.81

College of Engineering, Michigan State University, East Lansing, MI Aug 2019 – May 2023
Honors in Bachelor of Science, Computer Science, Minor in Business GPA: 3.82

WORK EXPERIENCE

Graduate Teaching Assistant | ***C++, Linux, C, LLMs, Discrete Mathematics*** Aug 2023 – Dec 2024
Michigan State University, East Lansing, MI

– Facilitated interactive C++, C, and ARM labs for over 100 undergraduates, boosting engagement and improving assignment completion rates by 30% through real-world demos and group exercises
– Collaborated with two faculty members to create quizzes and projects, thus improving exam scores by 10%

Front-End Developer | ***Python, Power BI, AWS, NLP, Project Manager*** Sep 2022 – Dec 2022
United Airlines, East Lansing, MI

– Led a 8-person team to build a Python–Tkinter app for 100+ airline technicians, cutting data preparation by 40%
– Adopted Power BI dashboards for real-time metrics, trimming reporting cycles by 30% and integrating feedback
– Managed sprint planning & code reviews, ensuring consistent development practices and on-time deliverables

Robotic Process Automation Developer | ***VB.net, C++, SQL, Product Manager*** Nov 2021 – Aug 2022
Delta Dental of Michigan, Okemos, MI

– Utilized C++ along with UIPath to build efficient automation scripts to reduce manual data processing time by 60%
– Coordinated with departmental leads to refine automation logic, thus increasing efficiency by 25%
– Created comprehensive and clear documentation for IT staff, ensuring seamless adoption of efficient workflows

CERTIFICATIONS

Project Management Professional Training (35 PDU Contact Hours)	**TIA Education Group**	Jan 2025
AWS Certified Solution Architect	**Amazon Web Services**	Oct 2024
Salesforce Certified AI Associate	**Salesforce (Trailhead)**	Oct 2024
AT&T Summer Learning Academy Extern	**AT&T**	Aug 2021

RESEARCH PROJECTS

Graph Convolutional Network for Node Classification |*Python, PyTorch, LLM, ML* Jan 2024 – May 2024

– Developed a Graph Convolutional Network (GCN) using PyTorch, attaining 93.7% accuracy in node classification
– Enhanced model performance through extensive hyperparameter tuning and applying dropout and weight decay

Credit Card Approval Model Prediction | *Python, MATLAB, ML, GenAI* Aug 2023 – May 2024

– Implemented and evaluated ML models, including Logistic Regression, Decision Trees, SVM, Perceptron, achieving 84.71% accuracy with SVM (linear kernel) for credit card approval prediction using the UCI dataset
– Conducted comparative analysis of classifiers using accuracy and feature importance, highlighting SVM and Logistic Regression for effective credit risk assessment

NELoRA Reproduction & Enhancement | *Python, MATLAB, Deep Neural Networks* Sep 2022 – Dec 2022

– Generated Dechirp and neural decoding models, securing a 15% improvement in accuracy over the NELoRA model
– Presented findings and code to 300 students, demonstrating the enhanced model's superior performance

TECHNICAL SKILLS

– **Languages:** Python, C++, C, ARM, JavaScript, VB.NET, HTML, CSS, C#, SQL, OpenGL, MATLAB
– **Data Visualization:** Excel, Microsoft Power BI, Python (Matplotlib, Seaborn, Plotly)
– **Cloud Computing:** AWS, Microsoft Azure, Salesforce
– **ML Libraries:** TensorFlow, Keras, PyTorch, scikit-learn, pandas, NumPy
– **Project Management Tools:** Agile, Waterfall, Gantt Charts, Trello, Jira, SDLC, ML feature cycle