

VARUNTEJ KODANDAPURAM

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EDUCATION

College of Engineering, Michigan State University, East Lansing, MI <i>Master of Science, Computer Science</i>	Aug 2023 – Dec 2024 GPA: 3.81
College of Engineering, Michigan State University, East Lansing, MI <i>Honors in Bachelor of Science, Computer Science, Minor in Business</i>	Aug 2019 – May 2023 GPA: 3.82

WORK EXPERIENCE

Graduate Teaching Assistant C++, Linux, C, LLMs, Discrete Mathematics Michigan State University, East Lansing, MI	Aug 2023 – Dec 2024
<ul style="list-style-type: none">– 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 United Airlines, East Lansing, MI	Sep 2022 – Dec 2022
<ul style="list-style-type: none">– 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 Delta Dental of Michigan, Okemos, MI	Nov 2021 – Aug 2022
<ul style="list-style-type: none">– 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
<ul style="list-style-type: none">– 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
<ul style="list-style-type: none">– 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
<ul style="list-style-type: none">– 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, Scrum