

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 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, Scrum