Varshith Velluru

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Education

New Jersey Institute of Technology **September 2023 - May 2025**

Master of Science in Computer Science

Coursework: Design and Analysis of Algorithms, Web System Development, Artificial Intelligence, NLP, Data Visualization, Operating Systems

Technical Skills

Languages: C, C++, Java, Python, R
Database and Big data tools: PL/SQL, MySQL, MongoDB, Tableau, SAS
Cloud and Web Design: HTML, CSS, Javascript, AWS, GCP
Tools and Operating ystems: Matlab, MS DOS, Jupyter Notebook, R notebook

Experience

Codemania **January 2020 – June 2020**

Software Engineer Intern *Hyderabad,India*

- Led data analysis using **SQL, Python** achieving 20% higher data accuracy and insights.
- Utilized **Tableau** to analyze and visualize data, improving task efficiency by 25%.
- Revamped **AWS** infrastructure to elevate project efficiency and secure a 30% gain in data analysis reliability.

SmartBridge **January 2020 – June 2020**

Software Engineer Intern *Hyderabad,India*

- Automated bulk certificate distribution with **RPA**, integrating Email SMTP-POP3 VOB for efficient emails.
- Efficiently distributed certificates using Excel VBO, optimizing processes in workshops and competitions.
- Used robots to mimic human actions, enhancing efficiency in data identification and system navigation.
- Automated error-free bulk certificate emails with Email and Excel VBO integration for precision.

Projects

Deep Learning for Hybrid App Security | *TensorFlow, PyTorch, Javascript, Matplotlib, Seaborn* **Feb – April 2021**

- Implemented **Deep Learning**, including HDLN, for code injection in **HTML5** hybrid apps.
- Engineered robust vulnerability detection by creating Google Play datasets and extracting **JavaScript**.
- Strengthened app security by skillfully generating features for precise code injection identification.
- Applied **Deep Learning** to effectively mitigate code injection, showcasing cutting-edge security expertise.

Digit Classification with Neural Networks & Machine Learning. | *TensorFlow, scikit-learn, CNN* **Feb – April 2020**

- Engineered a **neural network** for precise digit recognition, optimizing accuracy with machine learning.
- Utilized **CNNs** and precise data preprocessing for efficient image feature extraction in digit classification.
- Minimized errors through rigorous optimization, enhancing accuracy in digit classification.
- Used **Python, TensorFlow**, and **scikit-learn** for reliable results in diverse handwritten digit recognition.

Machine Learning BOTNET Detection Project | *Tableau, Pandas, PyTorch* **Feb – April 2020**

- Conducted data analysis and interpretation for BOTNET detection using machine learning models.
- Applied advanced data analysis techniques to extract meaningful insights and identify patterns.
- Utilized visualization tools for communication of findings to stakeholders based on data and model outputs.

Comparative Analysis of Fire Detection through Deep Learning | *DNN, Machine Learning* **Feb – April 2020**

- Implemented a research project using a **DNN** to anticipate forest fires
- Conducted a comprehensive comparative analysis, evaluating outcomes against **ML Algorithms.**
- Explored the effectiveness of deep learning in forest fire prediction.
- Enhanced fire detection systems through expert research analysis and system optimization insights.