

Likith Podalakuru

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EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science

Master of Science in Computer Science, Artificial Intelligence Track CGPA: 3.22/4.00

Expected December 2025

Relevant Coursework: Machine Learning, Artificial Intelligence, Programming for the Web, Design & Analysis of Algorithms, Programming Languages, IOT, System Programming

Vellore Institute of Technology, International Center for Education and Research, Bangalore, India

Post-Graduation Certification Program in Artificial Intelligence CGPA: 3.6.00/4.0

August 2023 - June 2024

Relevant Coursework: Probability & Statistics, Database Management Systems, Data Mining, Big Data Analytics, Data Visualization, Fundamentals of Artificial Engineering, Intro to Machine Learning & Deep Learning

SRM Valliammai College of Engineering, Chennai, India

Bachelor of Engineering in Computer Science

August 2016 - April 2020

Relevant Coursework: Programming & Data Structures, Cloud Computing, Data Warehousing & Mining, DBMS, Graph Theory, Cyber Forensics, Probability & Queuing Theory, Artificial Intelligence

TECHNICAL SKILLS

Programming Languages: Python, R, JavaScript, TypeScript, Go, Rust, C++, Java

Libraries and Frameworks: TensorFlow, Scikit-learn, Flask, Django, React, Express.js, Apache Spark

Platforms and Tools: Docker, Kubernetes, AWS, Git, Jira, Power BI, Tableau, Azure, Hugging Face, MongoDB, MySQL, Linux

Certifications: AWS Certified Cloud Practitioner, Microsoft certified: Azure Data Fundamentals, Python Institute's PCEP - Python Certified Entry-Level Programmer

PROFESSIONAL EXPERIENCE

Tata Consultancy Services, Systems Engineer | Chennai, India

January 2021 – September 2023

- Diagnosed and resolved technical issues submitted through ServiceNow and Jira every day, researching deeply to find the root cause of each problem and debugging the respective C++ and Assembly language code.
- Collaborated with cross-functional teams to implement new features and functionality to enhance system stability and performance by addressing the Client's evolving requirements.
- Monitored the System's performance during every production load. Tracked and managed multiple issues, serving as the primary point of contact for all incidents, technical inquiries, and cross-team support.

PROJECT & RESEARCH EXPERIENCE

Battleship AI, Independent Project

February 2025

- Developed an AI-based fleet navigation system using DFS, BFS, UCS, and A* search algorithms.
- Implemented enemy fleet detection, pathfinding, and maneuvering in a grid-based maritime environment.
- Optimized search strategies for obstacle avoidance and cost-efficient routing.
- Applied algorithmic problem-solving to real-world navigation challenges.

Traffic Monitoring and Surveillance using Deep Learning, Independent Project

July 2024

- Utilized the pre-trained YOLO (You Only Look Once) v8 model to implement a vehicle detection system for traffic monitoring in overpopulated cities.
- Optimized model performance through fine-tuning and hyperparameter adjustments, preparing it for scalable deployment.

Prediction of Malevolent Files using Machine Learning, Independent Project

February 2024

- Utilized machine learning techniques to analyze and process a provided malware dataset for predictive modeling.
- Developed models to assess the likelihood of an executable file being malware, enhancing detection accuracy.
- Provided a predictive approach to identify potential malware threats and strengthen cybersecurity measures.

Impact of Electric Vehicles on the Environment, Independent Project

November 2023

- A Machine learning classification and regression project on the impact of Vehicles on the Environment.
- We gained significant insights into electric vehicle trip lengths and behaviors in various cities using a data set containing electric vehicle trip chains and charging behaviors.
- The insights gained from this analysis can serve as valuable guidance for urban planning and policy-making in various locations.

PUBLICATIONS

Ashwin R, Dr.M.Senthil Kumar, **Likith Podalakuru**, & Bala Subramanyam M. (2020). "Proof of Work" generation using Blockchain. International Journal Of Advance Research And Innovative Ideas In Education, 6(1), 1324-1327.

LEADERSHIP EXPERIENCE

Red Cross Service Day - MLK Jr. Day of Service, Endicott, NY, Volunteer

January 2025

- Assisted the American Red Cross with inventory management and organization to ensure smooth volunteer service operations.
- Helped streamline storage and logistics to ensure better emergency response and disaster relief preparedness.

SRM Valliammai College of Engineering, Chennai, India, Technical Events Coordinator

December 2019

- Organized and managed technical events and competitions for the Computer Science department's annual symposium.
- Led the event execution, coordinated the speaker lineup, and ensured active student participation and engagement.

