

# Suryaprakash Uppalapati

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## EDUCATION

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### George Mason University

M.S. in Computer Science

Fairfax, Virginia.

Expected Graduation, MAY 2026.

- **Concentrations:** Machine Learning
- **GPA:** 3.82/4.00
- **Related Coursework:** Introduction to Artificial Intelligence, Computer Systems and System Programming, Mathematical Foundations of Computer.

### Vel Tech Dr. RR & Dr.SR University

Bachelor of Technology in Computer Science

Chennai, India.

GPA: 3.6/4.00

## TECHNICAL SKILLS

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**Programming Languages:** Python (NumPy, Pandas, Matplotlib, Scikit-learn)

**Software:** Jupyter Notebook, PyCharm, Visual Studio Code (VS Code).

**Database Management Systems:** SQL (MySQL)

**Cloud Services:** AWS SageMaker, Amazon Bedrock, AWS S3, EC2, IAM.

**Version Control:** Git

## PROJECT EXPERIENCE

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### BCG Data Science Job Simulation on Forage

September 2024 – October 2024

- Completed customer churn analysis for PowerCo using Python (Pandas, NumPy).
- Achieved 85% accuracy using Random Forest in predicting churn.
- Delivered executive summary providing actionable insights.

### Domain-Specific Language Model Fine-Tuning with Meta Llama 2

August 2024 – September 2024

- Fine-tuned Meta Llama 2 on AWS SageMaker for domain-specific tasks (finance, healthcare).
- Increased response accuracy by 30% for domain-specific inquiries.
- Delivered a proof of concept (POC) demonstrating the model's proficiency as a knowledgeable consultant, improving domain-specific response accuracy by 30%.

### Dynamic Object Detection System using YOLO

February 2024 – June 2024

- Developed a dynamic object detection system using YOLO, enhancing real-time detection accuracy by 40% and reducing processing latency by 20%.
- Engineered a scalable model architecture for seamless integration across cloud and edge environments.
- Improved detection precision by 30% through advanced data augmentation and transfer learning.
- Boosted operational efficiency by 50% with intelligent data pipelines for real-time analytics.

## ACTIVITIES AND LEADERSHIP

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### AWS DeepRacer Student AI-ML Competition

*Prequalified for the AWS AI & ML scholarship*

- Ranked 22nd out of 316 in the US, 42nd in North America, and 364th globally.
- Optimized a reinforcement learning model for autonomous driving using AWS DeepRacer.

## CERTIFICATION

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- **DeepLearning.AI:** Supervised Machine Learning: Regression and Classification
- **Udacity Certification:** Introducing Generative AI with AWS
- AWS Academy Graduate - AWS Academy Cloud Foundations
- AWS Academy Graduate - AWS Academy Machine Learning Foundations
- PCAP : Programming Essentials in Python