

# Abhishek Vajragattepalya Seetharamaiah

Richmond, VA 23224  
+1(804)-903-0123

abhishekgowdru1020@gmail.com  
<https://www.linkedin.com/in/vs-abhishek>  
<https://abhishekvs.github.io/>

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## Summary

- Master's student in Computer Science at Virginia Commonwealth University (expected Dec 2025) with specialization in Artificial Intelligence, Machine Learning, and Data Science.
- Skilled in NLP, Deep Learning, Data Mining, Advanced Algorithms, and Image Analysis, with hands-on experience in projects spanning recommender systems, intrusion detection, and computer vision.
- Proficient in Python, TensorFlow, PyTorch, scikit-learn, SQL, and Cloud platforms (AWS, GCP), with strong knowledge in Advanced Databases, Data pipelines, and Quantum Computing fundamentals.
- Industry experience as a Cloud & Machine learning Engineer at Quadra Systems .NET India Pvt Ltd, where I supported clients in cloud adoption, troubleshooting, and optimization of GCP and AWS Cloud solutions. Contributed to system reliability, cost efficiency, and client engagement strategies while collaborating with cross-functional teams.
- Experienced in both research and application of AI/ML models to real-world datasets, emphasizing scalability, performance, and interpretability.
- Passionate about solving problems at the intersection of data, AI, and software engineering, with the ability to collaborate across multidisciplinary teams.

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## Education

### ***Virginia Commonwealth University (VCU), Richmond, VA, USA***

*Master of Science in Computer Science*

### ***Presidency University (PU), Bengaluru, KA, INDIA***

*Bachelor of Technology in Information Science and Engineering*

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## Experience

### ***Quadra Systems .NET India Pvt Ltd, Bengaluru, India***

*Cloud Architect | Jan 2023 – Jul 2024*

- Supported clients in Google Cloud environments by resolving issues, optimizing deployments, and improving overall system reliability.
- Collaborated with cross-functional teams on cloud adoption, migration, and troubleshooting, ensuring secure and cost-efficient configurations.
- Assisted with API integration troubleshooting and basic monitoring, helping improve uptime and performance.
- Contributed to business growth through market research, lead generation, and support on proposals and client engagement strategies.

## Capgemini Technology Services, Bengaluru, India

Machine Learning Engineer | Jul 2020 – Jan 2023

- Built and maintained end-to-end ML pipelines using Python, TensorFlow, and scikit-learn, from data preprocessing to model training and evaluation.
- Developed and deployed ML models for classification, prediction, and recommendation use cases, integrating them into production via APIs or microservices.
- Performed feature engineering, model tuning, and experimentation to balance performance with latency and resource usage, in collaboration with cloud and MLOps teams.
- Worked with business stakeholders to understand requirements, define success metrics, interpret model outputs, and refine solutions based on feedback.

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### Projects

#### Market Basket Analysis using NLP & Association Mining – VCU

- Used Apriori/FP-Growth with simple NLP on retail data to find product patterns and build a better recommender.

#### Neural Networks for Intrusion Detection – VCU

- Trained neural networks to distinguish normal vs. malicious network traffic, focusing on reducing false positives.

#### IoT-based Human Following Robot – Presidency University

- Built an autonomous robot that follows a person using sensors and basic vision, achieving over **95%** tracking accuracy.

#### Number Plate Detector – Presidency University

- Developed a Python computer vision tool to automatically detect and read vehicle license plates from images/video.

#### Digitalization of Agriculture and Rural Areas (Publication) – Presidency University

- Co-authored a paper on how digital technologies can improve agriculture and support development in rural communities.

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### Skills

**Programming & ML:** Python, Java, C/C++, MATLAB, SQL, TensorFlow, PyTorch, scikit-learn, NumPy, Pandas

**Data Science & Analytics:** EDA, Feature Engineering, NLP, Neural Networks, Classical ML (classification, regression, clustering), Recommender Systems, Image Processing

**Databases & Data:** MySQL, PostgreSQL, MongoDB, Oracle, Advanced Database Systems, SQL querying & optimization

**Cloud, DevOps & MLOps:** Google Cloud Platform (GCP), AWS (EC2, Lambda, DynamoDB), Docker, Kubernetes, Cloud deployment, Git/GitHub, basic CI/CD

**Tools, Frameworks & Domains:** Jupyter, Tableau, Matplotlib, Seaborn, Streamlit, LangChain, LangGraph, OpenCV

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### Certifications

- AWS Cloud Practitioner Licensed Certification
- Architecting with Google Cloud Platform – GCP cloud design & deployment practices
- Machine Learning using Python (TCS iON Internship) – applied ML techniques on real datasets
- MATLAB Onramp – foundations of MATLAB programming for engineering and data science
- Python Essentials 01 & 02 – core Python programming and problem-solving
- Cyber Threat Management & Endpoint Security – fundamentals of cybersecurity defense
- Network Defence – strategies for securing distributed systems
- Generic Online Training in Cyber Security – basics of threat awareness and mitigation