

Abhishek Vajragattepalya Seetharamaiah

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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.

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

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.

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.

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

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