

# Neethika Prathigadapa

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## SUMMARY

Software engineering graduate student specializing in backend systems, full-stack development, and applied machine learning. Experienced in building RESTful services, distributed pipelines, and containerized applications with emphasis on performance, reliability, and scalable design.

## CORE SKILLS

- Languages:** Python 3.x, Java 11, JavaScript (ES6+), SQL, Go, Bash  
**Backend:** Go Microservices, Node.js, REST APIs, JWT Auth, Async Processing  
**Frontend:** React 18, Angular 15+, HTML5, CSS3  
**ML/AI:** CNNs, scikit-learn, Pandas, NumPy, Grad-CAM, SHAP  
**Cloud/DevOps:** AWS (EC2, S3 basics), Docker, Kubernetes, GitHub Actions, Linux  
**Databases:** PostgreSQL, MySQL, SQLite, MongoDB  
**Engineering:** Data Structures, Algorithms, Unit Testing, Debugging, Agile/Scrum

## EXPERIENCE

- **Machine Learning Intern** Mar 2025 – Apr 2025  
*SkillDzire*
  - Developed end-to-end supervised ML pipelines in Python using scikit-learn, improving baseline classification accuracy by **12%**.
  - Designed preprocessing workflows and evaluated models using precision, recall, and confusion matrices, reducing false positives by **18%**.
- **Software Engineering Intern (Full Stack)** Nov 2024 – Jan 2025  
*TechnoHacks Edutech*
  - Engineered RESTful backend services for authentication and business logic using Node.js, supporting **100+ active users**.
  - Built React frontend components with structured validation, reducing API failure rates by **20%**.
  - Optimized database queries and API contracts to improve response consistency and frontend rendering performance.
  - Implemented logging and exception handling frameworks to debug cross-service issues and stabilize production builds.
  - Collaborated in Agile sprints, participating in code reviews and deployment cycles.
- **System Administrator & Automation Intern** Apr 2024 – Sep 2024  
*ServiceNow (Remote)*
  - Developed Python and Bash automation scripts streamlining monitoring across **10+ services**, reducing manual checks by **35%**.
  - Analyzed logs and alert patterns to identify root causes of recurring incidents.
  - Built operational dashboards enabling proactive infrastructure issue detection.

## EDUCATION

- **University of Florida, Gainesville, FL** Aug 2025 – May 2027  
*M.S. in Computer Science* GPA: 3.89 / 4.0 — Expected May 2027
  - Coursework: Advanced Data Structures, Mathematical Foundations for Intelligent Systems, Analysis of Algorithms, Distributed Multimedia Systems, Internet Storage Systems, Software Engineering, Operating Systems, Machine Learning, Databases
- **Mahatma Gandhi Institute of Technology, Hyderabad, India** Nov 2021 – Jun 2025  
*B.Tech in Information Technology* GPA: 9.21 / 10 — Gold Medal
  - Courses: Data Structures, Algorithms, Database Management Systems, Software Engineering, Machine Learning, Cloud Computing, DevOps, Project Management.

## SELECTED PROJECTS

- **NeuroXAI: Explainable Brain Tumor Detection using EfficientNet**  
*Python, EfficientNet, CNN, Grad-CAM, Saliency Maps, Canny Edge Detection*
  - Developed an MRI-based brain tumor classification system using EfficientNet trained on **7,023 MRI images**, achieving **99% validation accuracy**.
  - Implemented preprocessing pipelines with normalization, augmentation, and **Canny edge detection** to enhance structural feature extraction.
  - Applied **Grad-CAM saliency maps** and SHAP-based explainability to visualize tumor-relevant regions, improving clinical interpretability and reducing false positives by **22%**.
- **Sentinet AI: Multi-Channel Product Intelligence Platform**  
*Angular, Go, REST APIs, Docker, PostgreSQL*
  - Architected multi-tenant ingestion pipelines from Jira, Slack, CSV, and support tools.
  - Built Go microservices for clustering, pain scoring, and evidence retrieval.
  - Implemented ranking logic combining frequency, recency, sentiment, and account tiers.
- **MercatoCloud: Multi-Vendor E-Commerce SaaS**  
*React, Node.js, MongoDB, Docker, Stripe APIs*
  - Designed SaaS backend supporting 8–10 vendors with JWT-based RBAC.
  - Built APIs managing 200+ products and optimized checkout latency by **30%**.
  - Containerized services and deployed via CI pipelines.

## CERTIFICATIONS

Cisco Programming Essentials in Python — Oracle Java Foundations — ServiceNow Certified System Administrator