

BALARAMA SATVIK BALABHADRAPATRUNI

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EDUCATION

George Mason University, *MS in Computer Science* | Virginia, USA
RVITM, *B.Tech in Information Science Engineering* | Bengaluru, India

GPA: - / 4.0

Current
June 2023

GPA: 3.44 / 4.0

EXPERIENCE

Chartwells Higher Education, *Ikes Student Admin Intern* | GMU | USA

Since Aug 2025

- Designed and built a **full-stack Python** analytics platform for a university dining facility, processing **130k+** diner records across 8 food stations using **NLP-driven** insights to enable real-time exploration by operations teams.
- Engineered XGBoost-based ML pipelines with continuous retraining to forecast daily and hourly diner traffic, achieving **93%+** cross-validated accuracy and enabling precise staffing and inventory optimization.
- Achieved a **25%** improvement in service efficiency and reduced food waste by **18%** through data-driven scheduling, **peak-hour** identification, and automated trend insights.
- Key Skills:** Python, Pandas, NumPy, scikit-learn, XGBoost, Interactive Dashboards, Heatmaps, Chart.js, NLP Summaries

Hewlett Packard Enterprise, *Software Designer I* | India

Aug 2023 - July 2025

- Led a team of 6 in developing an **AI-powered** solution to extract key data from Purchase Order PDFs, streamlining order entry with zero errors and protecting **\$231M+** in revenue.
- Designed and deployed a **ML-based** categorization system for incoming support cases, achieving **96.34%** accuracy, auto-assigning tickets, generating insights, and enhancing customer experience by **38%** while saving **8 FTEs**.
- Built an **interactive chatbot** to surface opportunity data, generate summaries, visual insights (charts, heatmaps), export outputs (Excel, images), and automate scheduled reporting emails.
- Automated a complex invoicing process for HPE GreenLake, reducing invoicing errors by **75.2%** and saving **14 FTEs** through end-to-end optimization.
- Key Skills:** Python, AI Hub, Machine Learning, MYSQL, Power Automate, Power BI, Selenium, AWS

Hewlett Packard Enterprise, *Software Developer Intern* | India

Feb 2023 - July 2023

- Automated data extraction using selenium from multiple sources, reducing manual workload by **83%**.
- Applied Machine Learning, Deep Learning techniques to identify data patterns and generate actionable business insights, along with **descriptive, predictive, and prescriptive analytics**.
- Created a **E2E Pipeline** to send out scheduled alerts to leadership by creating various views and utilizing Power Automate and Power BI.
- Key Skills:** Python, Machine Learning, Deep Learning, MYSQL, Power Automate, Power BI, Selenium

SKILLS

Languages	Python, JavaScript, C, .NET, R
Tools/Technologies	spaCy, Power Automate, Power BI, Ansible, CI/CD, DevOps, Spark, Scala, Git, NPM, Node.js, Flask, Django, HTML, CSS, AWS, Jira, jQuery, Bootstrap, SSIS, Entity Framework
Databases	SQL, MySQL, MongoDB
Domains	Backend Development, Machine Learning, Automation, Business Intelligence, NLP, Deep Learning

PROJECTS

RapidCloudify | Python, Azure Cloud, Node.js, Next.js, Ansible | <https://rapidcloudify.com/>

Nov 2023 - Present

- Led the development of a pioneering On-Premise to **Cloud automation** platform in Python and Spring Boot, achieving a **30%** reduction in manual effort by automating Azure Cloud deployment and demonstrating expertise in resource optimization.
- Developed an innovative cloud deployment automation solution, facilitating seamless **zero-code, zero-configuration deployment** for diverse front-end stacks alongside Python, Node.js, and SpringBoot backends.
- Spearheaded backend development, building robust **Python APIs**, utilizing **Ansible** for hosting user Git projects, and optimizing Azure DevOps management for a **25%** enhancement in storage and retrieval efficiency.
- Orchestrated streamlined **CI/CD** system implementation, utilizing **Webhooks** for swift and automatic deployment, resulting in a **40% reduction** in deployment time, demonstrating expertise in CI/CD practices.

Cyberatic RV | Python, PHP, MySQL, AJAX, Chart JS | <https://cyberaticrv.com/>

Jan 2021 - April 2021

- Developed a comprehensive web platform enabling students to showcase internships, personal projects, skills, and certifications through a centralized profile system.
- Implemented **secure** user authentication with registration and login modules, and designed admin/super-admin dashboards to streamline platform governance.
- Integrated **advanced analytics** modules, including performance graphs, comparison tools, and detailed test-result analysis to enhance student insights.
- Engineered a **real-time** collaboration system allowing users to send, manage, and accept collaboration requests directly within the platform.
- Automated the creation of **shareable, public-facing profiles** that function as dynamic, interactive resumes accessible via personalized URLs.