

ABHIJNYA, KONANDURU GURUMURTHY

Education

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Syracuse University

Master of Science(M.S), Computer Science - 3.88/4

Aug 2024 - May 2026

Syracuse, NY

BMS College of Engineering

Bachelor of Engineering(B.E), Computer Science- - 9.54/10

Aug 2018 - Jun 2022

Bangalore, India

TECHNICAL SKILLS

Languages: C++, Java, Python, SQL, HTML/CSS, JavaScript, PHP, Groovy, Data Structures, Algorithms

Databases: MySQL, PostgreSQL, NoSQL (MongoDB, DynamoDB)

Developer Tools: VS Code, GitHub, Git, Jira, Docker, Kubernetes, Jenkins, Linux, Unix, Excel

Frameworks: React.js, Node.js, Angular, Django, Express.js, Bootstrap, Flask, TensorFlow, CNN, Agile

Data Visualization: Power BI, Grafana, Tableau, R

Certifications & Grants: Microsoft Certified: Power BI Data Analyst Associate (Aug 2025 – Aug 2026), SQL (Advanced) – Hackerrank, AWS Cloud Technical Essentials – AWS, AWS re:Invent 2025 Grant Recipient (Upcoming)

EXPERIENCE

Graduate Research Assistant

Sep 2025 – Present

Syracuse University, Maxwell School of Citizenship and Public Affairs

Syracuse, NY

- Automated retrieval of **large-scale datasets** through **REST APIs**, implementing pagination handling and rate-limit mitigation strategies in collaboration with research faculty to ensure **data completeness**.
- Designed modular **Python scripts** for parsing **JSON responses**, transforming metadata, and exporting structured outputs (**Excel/CSV**), enabling seamless integration into faculty research workflows.
- Optimized **data pipelines** with error handling, logging, and incremental updates, reducing processing overhead by **40%**.

Data Analysis Engineer

Mar 2022 – Aug 2024

Mercedes Benz Research and Development

Bangalore, India

- Received **BRONZE STAR award** for driving customer-centric strategies, executing three critical service enhancements.
- Enhanced project efficiency by **30%** and accelerated delivery through **Agile practices** and close stakeholder collaboration.
- Designed and optimized scalable **data pipelines** for ingesting and validating sensor data using **Python, AWS, and PostgreSQL**, supporting **real-time insights** and improving data quality to **99.9%**.
- Built a **CI/CD dashboard** with **AWS CodePipeline** and **CodeBuild**, using **DevOps tools data** enabling tracking of frequent failures, identifying root causes, and improving troubleshooting by **80%** and reducing deployment issues by **30%**.
- Leveraged **Power BI, Grafana, and PostgreSQL** to build monitoring dashboards and drive **data-driven decision-making** across teams, enabling **real-time system visibility**.
- Integrated **SYS and SWE process models** into dashboards to effectively track **Key Performance Indicators (KPI's)** throughout requirements analysis, design, and testing.
- Collaborated cross-functionally and mentored interns to improve **business analytics** and **data-driven insights**.

Application Development Intern

Nov 2020 – Apr 2021

Samsung RD Institute

Bangalore, India

- Implemented a voice-enabled Literary Info Bixby capsule integrating **REST APIs** to deliver accurate info on books, authors, and literary events, enhancing **user experience** through seamless interactions, leveraging **Software Design principles**.
- Established a structured **capsule for Bixby AI**, defining key use cases, developing tailored models, and crafting **user dialog layouts**, serving as a reference for **3+ project teams** within the Samsung **PRISM program**.

Projects

AI-Powered Data Extraction & Structuring | *Python, Pandas, OpenPyXL, Regex, NLP*

Feb 2025 - Apr 2025

- Developed an **LLM powered pipeline** to convert **unstructured transcripts** into structured **Scope of Work data**, automating extraction of **tasks, budgets, and categories**
- Used **Flan-T5** and **DistilBART-CNN** to generate task titles and summaries, enhancing clarity in contractor documentation.
- Enabled scalable export to **Excel** using **OpenPyXL**, reducing review time and errors while supporting downstream planning

Threat Intelligence Dashboard | *React.js, Cyber-Security, AlienVault OTX API, CSS Animations*

Apr 2025 – May 2025

- Built an **interactive dashboard** using **AlienVault OTX API** with multi-filtering, **real-time charts**, dark/light mode, and **CSV export** for streamlined threat analysis.
- Developed with **React.js (Vite)** and **Recharts**; deployed with **REST API integration** and custom **CSS animations**.
- Integrated dynamic **visualizations** (Pie, Bar, Line charts), custom theming, and **responsive UI** to enhance security team workflows and cyber situational awareness.[View Dashboard]

Handwritten Maths Solver | *Python, Keras, CNN, Tensorflow, Pytorch, Machine Learning, Flask*

Aug 2021 - Sep 2021

- Led a team of three in achieving **97–99% accuracy** in recognizing **handwritten alphabets and numbers**, optimizing the model for diverse handwriting styles and sizes.
- Utilized advanced **technologies** including **Python, TensorFlow, Keras**, and multiple **machine learning libraries** to build and train a model on a dataset of **10,000 images**, ensuring reliable and precise recognition and prediction capabilities.