ABHIJNYA, KONANDURU GURUMURTHY

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Education

Syracuse University	**Aug 2024 - May 2026**
Master of Science(M.S), Computer Science - 3.9/4	*Syracuse, NY*
BMS College of Engineering	**Aug 2018 - Jun 2022**
Bachelor of Engineering(B.E), Computer Science- - 9.54/10	*Banglore, 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, CAD
Data Visualization: Power BI, Grafana, Tableau, R
Certifications & Grants: **AWS re:Invent 2025 Grant Recipient** ,*Microsoft Certified: Power BI Data Analyst Associate (Aug 2025 – Aug 2026)*, SQL (Advanced) – Hackerrank, AWS Cloud Technical Essentials – AWS

EXPERIENCE

Graduate Research Assistant   Sep 2025 – Present
Syracuse University, Maxwell School of Citizenship and Public Affairs   *Syracuse, NY*
- Automated retrieval and analysis of **large document datasets** from public sources using **REST APIs** and **browser automation**, with **pagination** and **rate-limit handling**.
- Built modular **Python pipelines** to extract and normalize data from PDFs (including **OCR**) and convert **unstructured content** into **structured reports**.
- Improved **pipeline reliability** and efficiency by **40%** using **error handling**, **logging**, and incremental processing.

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]

Healthcare Named Entity Recognition System | *PyTorch, Hugging Face, NLP, Flask, React*   **Oct 2025 – Nov 2025**
- Developed an **AI-powered NER system** using **BioBERT** to extract **disease** and **chemical entities**, outperforming rule-based and BiLSTM-CRF baselines.
- Built and deployed an end-to-end **ML pipeline** with **transformer fine-tuning**, **precision/recall/F1 evaluation**, and a **Flask REST API** integrated with a **React dashboard** for live predictions.[View Demo]