

Sudeepthi Rebbalapalli

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PROFESSIONAL SUMMARY

Graduate student in Computer Science with 2+ years of professional experience in data engineering, machine learning, and big data technologies. Skilled in building scalable data pipelines, training predictive models, and leveraging cloud platforms to drive insights and automation.

EXPERIENCE

Associate Consultant, Senior Analyst

Jun 2021 – Jul 2023

Capgemini Technology Services India Ltd. | Bangalore, India

- Enhanced the Master Data Management (MDM) system for a global fast-food chain by resolving defects, optimizing performance, and implementing feature enhancements using **SQL**, **XSLT**, and **JavaScript**.
- Automated workflows with **shell scripts**, improving data processing speed by 3x and reducing manual effort.
- Resolved 20+ high-impact **cybersecurity** vulnerabilities, improving application security and system resilience.
- Led testing efforts across **unit**, **integration**, **SIT**, and **UAT testing**, ensuring smooth production rollouts.
- Mentored 10+ team members in **Java**, **SQL**, and **JavaScript**, boosting team productivity and onboarding.
- Led technical discussions in scrums and client meetings; collaborated with cross-functional teams to improve project delivery time by 20%.

Big Data Intern

Jan 2021 – May 2021

Capgemini Technology Services India Ltd. | Pune, India

- Optimized storage and processing for 1TB+ datasets using **Hadoop**, **Spark**, and **Sqoop** reducing processing time by 30-50%.
- Built scalable data pipelines for an Indian food delivery company by developing **Java** packages, implementing **Talend ETL jobs**, writing **Hive queries**, and creating **Bash scripts**.

Data Science Intern

May 2020 – Jul 2020

Cyient Ltd. | Hyderabad, India

- Reviewed 20+ research papers on **deep learning** for fake news detection, outlining methodologies and challenges.
- Developed a **Keras-based** neural network model for effective fake news detection, using **NLTK** for preprocessing, **Scikit-Learn** for feature selection, and **Pandas**, **NumPy**, and **Matplotlib** for data processing and visualization.

EDUCATION

Master of Science in Computer Science

Aug 2023 – May 2025

Indiana University Bloomington | Bloomington, Indiana | GPA: 3.82

Bachelor of Technology in Computer Science Engineering

Jul 2017 – Jun 2021

Vellore Institute of Technology | Vellore, India | GPA: 9.07/10.0

PROJECTS

Global Development Index Analysis | BigQuery, Cloud Functions, Google Cloud Storage, Python, Plotly

- Built a scalable data pipeline on GCP to automate ingestion and transformation of global development indices; visualized geopolitical impacts with Plotly, reducing manual effort and improving data reliability.

Early-Onset Parkinson's Detection from Speech Data | Python, Deep Learning, Speech Processing

- Collaborated with an Indian hospital to classify early-onset Parkinson's using patient speech data; developed on-site analysis prototypes prioritizing clinical usability and data privacy.

AWS Machine Learning for Predictive Maintenance | AWS SageMaker, S3, Data Wrangler, Python

- Developed a predictive maintenance system within AWS, using SageMaker for model training and deployment, S3 for data storage, and Data Wrangler for data processing. Implemented ML models (Logistic Regression, Naive Bayes, Random Forest) to predict machine failures and reduce downtime.

ADDITIONAL SKILLS

Languages: C, C++, HTML, CSS, Swift, Scala, R

Tools: Tableau, AWS, GCP, Git, Docker, JIRA, Confluence, Jupyter Notebook, Linux, React, Xcode, Android Studio