

SAGARIKA DUBBAKA

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SUMMARY

Data Science graduate student with a strong foundation in machine learning, statistical modeling, and data-driven decision-making, supported by a Bachelor's and Master's degree. 2+ years of experience in Python, SQL, R, with expertise in predictive modeling, NLP, and rule-based automation. Skilled in data visualization (Power BI, Tableau), big data technologies (Hadoop, Spark), and cloud-based AI deployment (AWS). Proficient in Agile methodologies (Jira), stakeholder communication, and sprint planning. Demonstrated leadership and collaboration as President of a university student club, successfully organizing initiatives and fostering teamwork. Passionate about applying AI and machine learning to extract insights, optimize decision-making, and drive real-world impact.

EDUCATION

Master of Applied Science in Data Science

Illinois Institute of Technology, Chicago, IL | Expected Graduation: May 2025

- GPA: 3.33
- Relevant Coursework: Database Organization, Machine Learning, Data Preparation and Analysis, Big Data Technologies, Regression, Project Management, Time Series.

Bachelor of Science in Mathematics, Statistics, and Computer Science

Government City College, Osmania University, Telangana, India | May 2022

- GPA: 3.8

INTERN EXPERIENCE

Data Science Intern – Suvidha Mahila Foundation (NGO)

June 2022 - March 2023 - Mumbai, India

- Developed an NLP-based summarization pipeline using Hugging Face Transformers (BART/T5) to process educational reports, reducing manual analysis time by 20%.
- Extracted key insights from unstructured volunteer feedback and outreach data using TF-IDF, improving accessibility for 500+ volunteers and decision-makers.
- Automated data workflows with Python and deployed the tool on AWS, enabling real-time summarization and enhancing data-driven planning.

Data Science Intern – Label Master Company

Chicago, IL | Jan 2025 – Present (Ongoing Project)

- Developing a data imputation framework using rule-based techniques and ML models (XGBoost, LightGBM) to infer missing job roles, management levels, and industry classifications.
- Achieved a 91.19% match rate between rule-based and ML predictions, validating imputed data through clustering and Power BI visualizations.
- Automating workforce segmentation and business intelligence insights, improving data quality and decision-making for large-scale workforce analytics.

PROJECT EXPERIENCE

Northern Trust Simulation - Agile Project

Self-Initiated Project | January 2025

Tools Used: Jira, Python, SQL

- Managed Agile workflows with Jira for sprint planning and task prioritization.
- Built a mock financial data pipeline using Python and SQL for data validation.
- Delivered sprint summaries to align stakeholder priorities.

Retail Sales Data Analysis – Tableau, Python, MS Excel

Tata Virtual Internship | January 2025

Tools Used: Tableau, Python, MS Excel

- Analyzed retail datasets to identify KPIs and high-growth regions for business expansion.
- Preprocessed data using MS Excel and visualized trends with Tableau dashboards.
- Delivered actionable insights to enhance decision-making processes.

Real-Estate Property Database Management System

Academic Project | December 2023

Tools Used: Python, Flask, MySQL, HTML

- Built a web interface for managing real estate data using Flask.
- Designed databases and automated mock data generation with MySQL and Python.
- Optimized data retrieval with CRUD operations and OLAP queries.

SKILLS

- Programming & Data Analysis: Python, SQL, R
- Machine Learning & AI: Supervised & Unsupervised Learning, NLP (Text Processing & Classification), XGBoost, LightGBM.
- Data Visualization & Business Intelligence: Tableau, Power BI, Matplotlib, Seaborn
- Big Data & Distributed Computing: Apache Spark, Hadoop, Hive
- Databases & Data Processing: MySQL, Advanced Excel (Pivot Tables, Data Cleaning, Automation)
- Agile & Project Management: Jira (Sprint Planning, Task Prioritization, Backlog Grooming)