

Jahnavi Jammula

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EDUCATION

Saint Peter's University

May 2025

Master of Science, Data Science - GPA: 3.9/4.0

- **Coursework:** Machine Learning, Business Intelligence, Data Visualization, Applied Statistical Methods, Data Management

SKILLS

- **Programming Languages:** Python, R
- **Python Libraries/Machine Learning:** OpenCV, Pandas, NumPy, Sci-Kit Learn, Matplotlib
- **Database Technologies:** SQL, NoSQL, MongoDB, Oracle, Snowflake, PostgreSQL, Azure Databricks
- **Visualization tools:** Tableau, Looker, Qlik, Power BI, Excel, D3.JS
- **Cloud/ Big Data Technologies:** AWS, Hadoop (HDFS and Spark), MapReduce, Scala, Azure, data analytics
- **Tools & Platforms:** Salesforce (familiar), LMS Dashboards (simulated), AppSmith, Looker
- **Analysis:** Correlation analysis, ad hoc reporting, program performance evaluation
- **Other:** GitHub, Advanced Microsoft Excel skills, VSCode, Salesforce

WORK EXPERIENCE

Object Technology Solutions India Pvt. Ltd.

Jul 2020 – Jul 2023

Software Engineer (Data & Analytics)

Hyderabad, India

AI-Powered Public Grievance Redressal System.

Aug 2022 - Jul 2023

- Built transformer-based models for grievance classification and timeline prediction, enhancing service delivery efficiency by 12%.
- Automated data pipelines using Apache Airflow and deployed serverless workflows with AWS Lambda and Amazon S3 for scalable, reliable processing.
- Delivered real-time dashboards via Amazon QuickSight and AppSmith; supported full-stack deployment with Flask, React.js, and PostgreSQL.
- Collaborated with cross-functional teams in a fast-paced, agile environment to deliver data-driven features under tight timelines

Multilingual Chatbot

Aug 2021 - Jul 2022

- Created ETL pipelines with Azure Databricks and enhanced document processing using OCR and OpenCV.
- Developed a multilingual AI chatbot with Bharta4AI STT, integrated into Microsoft Teams for text and voice interaction.
- Created dynamic dashboards with Databricks and Redash; automated workflows using Azure Functions and Logic Apps.

MOA's – Unified Portal for Agricultural Statistics

Jul 2020 - Jun 2021

- Developed centralized data analytics dashboards integrating national-level agricultural data to deliver real-time insights.
- Built scalable ETL pipelines and APIs using Apache Airflow for automated, multi-source data consolidation.
- Designed interactive dashboards with Plotly Dash and Power BI to support stakeholder decision-making.

PROJECTS

Hospital Recommendation System

Nov 2024

- Developed a ReactJS-based hospital recommendation web app with integrated location services and map APIs to help users find nearby hospitals based on ratings and available services.
- Clean Implemented machine learning models using Python (Pandas, NumPy, scikit-learn) to enhance hospital care suggestions, achieving a 15% improvement in recommendation accuracy.
- Integrated Vertex AI's Prompt Design and LLMs to support natural-language queries (e.g., "Which hospital has emergency services?") and added a basic AI chatbot for user interaction.
- Adopted Responsible AI principles (Google Cloud) and used Generative AI to create synthetic patient data, ensuring data privacy and ethical AI usage.

Inventory Management System

Feb 2024

- Created a full-stack inventory management application using Flask (backend) and ReactJS (frontend) to monitor, forecast, and report inventory trends using Tableau and Power BI
- Integrated machine learning models using Python and scikit-learn for demand forecasting and inventory optimization.
- Built real-time dashboards in Tableau to display key metrics including inventory turnover, stock levels, and restocking alerts.
- Implemented secure RESTful APIs and role-based access control for seamless front-end-backed communication.

CERTIFICATIONS

- **Microsoft Certified:** Azure AI Fundamentals (July 2025)
- **AWS Certified:** AWS Cloud Practitioner (August 2025)
- **Responsible AI:** Google Cloud Skill Badge (Oct 2024)
- **Prompt Design in Vertex AI:** Machine Learning & AI (Oct 2024)
- **Generative AI:** Google Cloud Skill Badge (Feb 2025)