SANJANA KALIDINDI

sanjana.kalidindi-1@ou.edu — 813-203-0038 — linkedin.com/in/sanjanakalidindi
Norman, OK, US

INTRODUCTION

Detail-oriented and highly motivated entry-level Data Analyst with a strong foundation in statistics, data cleaning, and visualization. Proven ability to transform raw datasets into actionable insights through tools like Python, SQL, Excel, and Tableau. Built interactive dashboards and conducted end-to-end analyses that revealed trends, optimized workflows, and supported data-driven decisions. Passionate about uncovering meaningful patterns in data, asking the right questions, and continuously learning new analytical tools in fast-paced, impact-driven environments.

TECHNICAL SKILLS

- **Languages:** Python, SQL, R, Java, JavaScript
- **Backend & APIs:** Flask, Node.js, Express.js, REST API Integration
- **Data Analytics & EDA:** Excel, Pivot Tables, VLOOKUP, pandas, NumPy, matplotlib, seaborn
- **Databases & Querying:** MySQL, PostgreSQL, MongoDB
- **Statistical & ML Tools:** scikit-learn, TensorFlow, statsmodels, OpenCV
- **Visualization Tools:** Tableau, Power BI, Plotly, D3.js, Matplotlib, Seaborn
- **Business Intelligence:** Google Data Studio, Tableau, Power BI
- **Frontend & Web:** ReactJS, HTML, CSS, JavaScript, D3.js
- **Tools & Workflow:** Git, GitHub, Jupyter Notebook, Google Colab, Postman, VS Code
- **Cloud & DevOps:** AWS (EC2, S3), Docker (basic)
- **SDLC & Methodologies:** Agile, Waterfall, Scrum

EDUCATION

University of Oklahoma, Norman, OK, USA Aug 2023 – May 2025
Master of Science in Computer Science

Jawaharlal Nehru Technological University, Telangana, India Jul 2019 – Jul 2023
Bachelor of Engineering in Computer Science

WORK EXPERIENCE

Data Analyst, Storylinez Oct 2024 – May 2025
Part-time, Remote

- Designed and automated ETL pipelines for large-scale audio datasets using Python and SQL.
- Cleaned, transformed, and standardized MP3/WAV data for machine learning workflows.
- Created Tableau dashboards for audio feature tracking and system performance analysis.
- Conducted EDA and statistical profiling to guide ML model tuning and evaluation.
- Scheduled and versioned batch jobs to ensure data pipeline reliability.
- Automated posting of videos and updates across social media platforms using APIs.

- Collaborated cross-functionally with ML and product teams to align data efforts with product goals.
- Documented data schemas, processes, and workflows for reproducibility and scalability.

Graduate Teaching Assistant, University of Oklahoma Jan 2024 – May 2024

- Guided students in understanding Python programming concepts through lab sessions and one-on-one support.
- Assisted the professor with grading assignments, creating exercises, and proctoring exams.
- Ensured academic integrity and helped improve student comprehension of core programming principles.

PROJECTS

Ask OU Chat — React.js, Express.js, LLaMA 3, REST APIs
Frontend — Backend

- Developed a full-stack intelligent chatbot for OU using hybrid logic: knowledge base + LLaMA 3 API.
- Enabled speech-to-text input, text-to-speech output, and music toggle during response generation.
- Implemented chat history filtering, restore, and session-clearing functionality.

Air Quality Explorer — React.js, D3.js, Recharts, HTML/CSS
Live Demo

- Built an interactive dashboard to explore pollution trends over time using real-world sensor data.
- Visualized pollutants like CO, NOx, Benzene, and integrated temperature/humidity data.
- Enabled dynamic filtering by pollutant type and time range.

Cache Coherence Simulation — Python
GitHub

- Simulated MESI and Dragon cache coherence protocols on 4-processor memory operations.
- Tracked and analyzed coherence bus activities (BusRd, BusRdX, BusUpdate, BusUpgr).
- Compared invalidation- vs update-based strategies in terms of bus overhead.

Datasaurus Visualization System — D3.js, JavaScript
GitHub

- Created interactive scatterplot visualizations to show how datasets with identical statistics vary visually.
- Enabled brushing interaction on Dino plot to highlight similar patterns across 8 subplots.
- Displayed dynamically updated mean and standard deviation in a coordinated bar chart.

Heart Disease Detection — Python, Machine Learning
GitHub

- Built a predictive classification model using 300+ patient records and 15 medical features.
- Implemented Decision Trees, Logistic Regression, and Random Forest achieving 89% accuracy.

CERTIFICATIONS

- **Programming for Everybody – Python** (Coursera, 2023): Learned Python fundamentals including control structures, functions, and data handling.
- **SQL (Basic & Intermediate)** – HackerRank (2023–2024): Solved SQL problems involving joins, aggregations, and nested queries.
- **Data Science (Basics)** – Udemy (2024): Covered data cleaning, visualization, and basic model building in Python.
- **Java (Intermediate)** – HackerRank (2024): Applied object-oriented programming and data structures to algorithmic problems.
- **Google Data Analytics Professional Certificate** – Coursera: Gained hands-on experience in data wrangling, visualization, and analysis using real-world case studies.

ACHIEVEMENTS & INITIATIVES

- Guided the WISE Bootcamp (Women in Software Engineering), gaining exposure to version control, REST APIs, and Agile tools through hands-on coding sessions.
- Won 1st Place in Gadget Freak at Acumen'22, Vasavi College of Engineering, for building a hardware-software prototype under time constraints.
- Attended a Solar Lamp Making Workshop at IIT Bombay, learning renewable energy concepts, circuit design, and hands-on soldering.
- Led the Street Store initiative to distribute clothes and essentials to 100+ underprivileged individuals, managing volunteers and logistics for a community-wide outreach event.

..