

Sri Vaishnavi Mallipeddi

CONTACT

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TECHNICAL SKILLS

Tech Stack

- R
- Python
- Java
- HTML
- CSS
- JavaScript
- REST API

Frameworks & Libraries

- Django Framework
- Selenium

Databases & Data Tools

- PostgreSQL
- BigQuery
- SQL
- Database management
- Database programming
- MongoDB
- SAS

Data Analysis & Visualization

- Data analysis
- Data cleaning
- Data validation
- Data modeling
- Statistical analysis
- Excel functions
- Power BI
- Tableau
- Jupyter Notebook

Algorithms

- Linear Regression
- Logistic Regression
- Data Structures & Algorithms

PROFESSIONAL SUMMARY

Data Analyst with over 2 years of experience delivering data-driven solutions across the **energy, technology, and education** sectors. Proficient in **data analysis, statistical modeling, and dashboard development** using tools like **Power BI, Tableau, SQL, and Python**. Experienced in **customer experience analysis**, automating data workflows, optimizing database queries, and developing **KPIs** that support **real-time decision-making**. Known for collaborating with cross-functional teams to translate business needs into analytical solutions that enhance **operational efficiency** and **customer satisfaction**. **Self-driven** with a strong commitment to leveraging data insights to drive **strategic initiatives** and improve **organizational performance**.

EDUCATION

Master's in computer science

Univ. of North Carolina, Charlotte, NC

August 2023 – December 2024

WORK EXPERIENCE

Data Analyst

Deriva Energy, Charlotte, NC

June 2024 – April 2025

- **Designed and deployed 10+ interactive Power BI dashboards** to visualize **10K+** observations, events, and compliance metrics, reducing manual reporting time by 70% and enabling **real-time tracking** of “Met” vs. “Not Met” conditions.
- Collaborated with safety and compliance stakeholders to define 25 KPIs and translate requirements into **robust data models**, driving a **30% increase in on-time corrective action completion**.
- **Automated data collection** and workflow reporting with **Power Apps** and **Power Automate**, slashing manual data-entry effort by 80% and delivering updates with under **5-minute latency**.
- **Optimized complex SQL Server queries** over **1M+ records**, accelerating **data retrieval by 85%** and supporting **sub-second dashboard refresh rates**.
- **Conducted deep-dive analyses** to uncover compliance trends, informing targeted action plans that **reduced incident recurrence by 40% year-over-year**.
- **Tech stack Used:** Microsoft Power BI, Power Apps, Power Automate, SQL Server, DAX, Power Query, Alteryx, Git.

Software Engineer

Oriontek Pvt Ltd, Vijayawada, India

August 2022 – July 2023

- **Engineered** a full-stack **Python** application with **Django** and **Django REST Framework**, automating extraction of 500+ daily job listings from LinkedIn, Naukri and Indeed using **Selenium** and **Requests**, boosting data acquisition efficiency by 80%.
- **Developed and secured REST APIs** with input-validation, comprehensive error-handling, and logging; implemented **Git-powered CI/CD pipelines** on **Heroku** for scalable, zero-downtime deployments and 99%+ uptime.
- **Designed** a responsive frontend with **HTML5, CSS3, JavaScript**, and **Bootstrap**, enabling dynamic filtering, pagination, and an intuitive job-search user experience.
- **Tech Stack:** Python, Django, Django REST Framework, Selenium, Requests, PostgreSQL, HTML5, CSS3, JavaScript, Bootstrap, Git, Heroku

Software & Tools

- Visual Studio Code
- GIT
- Docker
- Dockerhub
- Windows
- Jenkins

Cloud & DevOps Tools

- AWS EC2, S3, RDS, Lambda
- IAM (Identity and Access Management)
- CloudWatch (Monitoring & Logging)
- AWS CLI
- Deployment using AWS Elastic Beanstalk
- Serverless Architecture (using AWS Lambda & API Gateway)
- CI/CD Integration with AWS (CodePipeline, CodeDeploy)

Other Skills

- Web scraping
- Software Development Life Cycle (SDLC)
- ETL processes

ACCOMPLISHMENTS

- NPTEL Certification in Internet of Things Programming.
- NPTEL Certification in Database Management System.
- Miss TTA Charlotte 2024 Winner.
- Founder and Operations Lead of Sri Vaishnavi Fashions.
- Currently leading and managing a fashion boutique, overseeing all aspects of operations, inventory, and marketing.

Software Engineer Intern

APSSDC, Vijayawada, India

November 2019 – March 2020

- Engineered a **desktop** analytics application in **Python (Tkinter)** that ingests and processes **100K+** rows of ODI cricket data across **2,500+** matches, achieving an average data-load time under **3 seconds** (50% faster than the initial prototype).
- Architected modular components for data ingestion, cleaning, visualization and UI, slashing feature development time by **30%** and ensuring easy maintainability.
- Developed interactive **Matplotlib** visualizations—including bar charts, pie charts and box plots—with dynamic filtering by player, team and match outcome, boosting actionable insight generation by **20%** in stakeholder testing.
- Optimized data handling via **Pandas**, delivering **60%** faster query performance on key statistics (mean, median, distributions) and enabling sub-second drill-downs on large datasets.
- Designed an intuitive GUI for non-technical users, earning **85%** satisfaction in usability surveys and adoption by **15** internal analysts for routine sports-analytics reporting.
- **Tech Stack Used:** Python, Tkinter, Pandas, Matplotlib, Seaborn, Jupyter Notebook (Anaconda), Git.

PROJECTS

Electric Vehicle Adoption Analysis Using Tableau

- Performed end-to-end **ETL** with **Tableau Prep**, cleaning and transforming hundreds of thousands of Washington State vehicle registration records for robust trend analysis.
- Designed interactive **Tableau** dashboards to visualize geographic adoption patterns, model-year distributions, electric range, and MSRP, enabling stakeholders to compare BEV vs. PHEV performance.
- Applied **time-series analysis** to identify seasonal registration peaks and **geospatial mapping** to assess climate-driven adoption differences, informing data-driven policy and incentive strategies.
- Conducted **statistical correlation** between EV adoption rates and socio-economic factors (median income, household size), driving targeted incentive program recommendations.
- **Tech Stack Used:** Tableau, Tableau Prep, ETL, Data Cleaning, Data Transformation, Time-Series Analysis, Geospatial Mapping, Statistical Analysis.

Planet Perks Sustainability Portal

- Developed a responsive, cross-device web application using **HTML5**, **CSS3**, and **JavaScript**, delivering an intuitive user experience for tracking sustainable rewards.
- Architected and implemented an **MVC** backend with **Node.js** and **Express**, exposing **REST API** endpoints for seamless client-server interactions.
- Integrated **MongoDB** via **Mongoose** for schema-driven data modeling and persistent storage, optimizing query efficiency and ensuring data integrity.
- Implemented secure **user authentication**, session management, and GDPR-aligned data handling, ensuring compliance and trustworthiness.
- **Tech Stack Used:** HTML5, CSS3, JavaScript, Node.js, Express, MongoDB, Mongoose, MVC, REST API, User Authentication, Responsive Design.

ASSISTANTSHIP

Graduate Teaching Assistantship

Univ. of North Carolina, Charlotte, NC

August 2023 – May 2024

- Facilitate engaging lab sessions for 'Introduction to Computer Networks', reinforcing foundational concepts in network architecture, protocols, and communication models for undergraduates.
- Contributed to the revision of course materials, including lecture notes and online resources, to enhance the learning experience and keep content up to date with the latest technological advancements.
- Collaborated with faculty to develop and grade assignments and exams, ensuring a fair and efficient assessment process.