Sravani Pati

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EDUCATION

Clemson University — Clemson, South Carolina
Master of Science in Computer Science, Majors in Data Science **GPA: 3.80/4** — Aug 2022 - May 2024
Visvesvaraya Technological University — Bangalore, India
Bachelor of Technology in Computer Science **GPA: 8.9/10** — Aug 2017 - Aug 2021

TECHNICAL SKILLS

Programming Languages: Python(Advanced), C#, C++, Java(Basics), JavaScript (Intermediate), HTML, CSS.
Data Analysis Management and Tools: Oracle Virtual Machine, MYSQL, Jupyter Notebook, Power BI, Tableau, SQL.
Data Analysis Skills: Data Profiling, Data Wrangling, Data Modeling, Data Mining, Data Visualization, Data Interpretation, Data Manipulation, Dashboard Creation, Dax Queries, Extract Transform Load(ETL).
Machine Learning: Supervised, Semi-Supervised and Unsupervised Learning.
Softwares and Tools: Microsoft Excel, Linux/Unix, Windows Systems, AWS (Basic), Git.

WORK EXPERIENCE

Data Science Intern | Clemson Engineers For Developing Communities — Aug 2023 - May 2024
- Championed the development of an innovative tool for federal grant categorization, driving a remarkable accuracy boost of over 90%. This solution enhanced operational efficiency and accessibility.
- Spearheaded the establishment of a grant navigation system, organizing and categorizing 70+ grants for future automation; played a key role in simplifying the grant application process and increasing access to vital funding opportunities.
- Investigated datasets to improve grant mapping, which drove a strategic change in dataset selection. This optimization refined the tool, enabling seamless access to essential funding for community members.

Data Analyst Intern | Clemson Engineers For Developing Communities — Aug 2023 - May 2024
- Applied Kepner Tregoe Analysis to refine 4 tools, decreasing project turnaround time by 50% and enhancing team productivity; recognized for strategic thinking and operational excellence.
- Pioneered the utilization of Python libraries to distill actionable insights from qualitative data, resulting in a 35% uptick in US Army Corps of Engineers satisfaction. These transformative strategies empowered effective decision-making processes.
- Revamped geographic analysis methods by transitioning from Python to Power BI, utilizing advanced visualization tools to craft detailed reports, led to a 80% improvement in pinpointing critical intervention areas.
- Directed the creation of in-depth tutorials and video resources for a team of 4, providing vital analytical tools; cultivated a collaborative atmosphere that accelerated project advancement by 60% and maximized team member engagement.

PROJECTS

Executive Sales Analysis | Power BI · DAX Queries · ETL Process · Dashboard Creation — Jan 2024 - Apr 2024
- Constructed an executive dashboard with Power BI, enabling real-time analysis of sales, profits, and market trends, resulting in a 15% increase in sales revenue and a 20% improvement in profit margins.
- Streamlined data accessibility and decision-making processes by 25% through the creation of interactive visualizations and automated alerts, facilitating quicker and informed strategic decisions.
- Led the integration of Power BI to streamline data visualization and analysis processes, utilizing DAX for tailored calculations; facilitated data-driven decision-making, leading to a 30% reduction in customer churn rate.

Failure Point Automation | Machine Learning · Risk Mitigating Plans — Aug 2023 – Dec 2023
- Executed the automation of infrastructure risk analysis to enhance disaster preparedness in low-capacity communities, leading to a 50% reduction in vulnerability assessment completion time and a 25% increase in risk mitigation efficiency.
- Leveraged machine learning algorithms in GIS applications to increase mapping accuracy by 40%; optimized failure point recognition by 25% using CNN and R-CNN technologies, revolutionizing maintenance, and risk management practices.
- Engineered and deployed a suite of data-driven tools to assess resilience across 50 disaster-prone regions, enhancing community preparedness and response by 40% through targeted interventions and resource allocation strategies.

VOLUNTARY EXPERIENCE

Supervisor: Srinivasa Enterprises (CELON) — Jul 2020 - Jan 2021
Managed a team of 100 packing professionals to enhance workflow and guarantee the timely production of essential medications for vulnerable individuals, leading to a 25% improvement in quality and on-time delivery.

CERTIFICATES

- Microsoft Power BI Data Analyst | Microsoft — Feb 2024 - Apr 2024
- Google Advanced Data Analytics | Google — Dec 2023 - Jan 2024