

Naveen Patsamatla

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Summary

- Experienced Data Analyst with over **3** years of professional expertise leveraging **Python, SQL**, and **Tableau** to thrive in data analysis, manipulation, and visualization.
- Proficient in designing and implementing **ETL** processes with advanced tools, optimizing data workflows for efficiency. Demonstrated expertise in data modeling and database development across diverse domains, including **data warehouse, data marts**, and **data lakes**.
- Successfully created over **20** dynamic visualizations using leading data visualization tools such as **Tableau, Power BI**, and **SAS Viya**, facilitating insightful data-driven decision-making.
- Adept in advanced **statistical analysis, predictive modeling**, and diverse **machine learning** techniques. Implemented these skills across platforms such as **KNIME, Rapid Miner**, and more to drive informed decision-making and deliver actionable insights.
- Proficient in data storytelling and presentation, delivering insightful findings and recommendations to executive leadership, resulting in informed decision-making and strategic initiatives.

Education

Oklahoma State University <i>Master of Science in Management Science and Information Systems, GPA : 3.93/4.0</i> Coursework : Programming for Data Science Descriptive Analytics and Visualization Data Warehousing Statistics for Data Science Predictive Analytics	Stillwater, OK <i>Graduation : Dec 2023</i>
Amrita Vishwa Vidyapeetham <i>Bachelor of Technology in Electronics and Communication, GPA : 7.42/10.0</i> Coursework : Computer Vison Image Processing Signal Processing Data Communication and Networks Information Theory and Coding Techniques	Bengaluru, India <i>Graduation : Jun 2020</i>

Experience

Oklahoma State University <i>Graduate Teaching Assistant</i> <ul style="list-style-type: none">Collaborated with esteemed professors to support various courses, including International Sports Management, Money and Banking during my master's program, fostering a dynamic learning environment. Actively engaged with more than 100+ students during office hours and lab sessions, addressing their questions and ensuring their comprehension.Played a pivotal role in assisting professors with their responsibilities, including test administration and meticulous grading of student assessments, contributing to presentations, and adeptly problem-solving to handle the class in their absence.	Stillwater, OK <i>Jan 2023 – Dec 2023</i>
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Graduate Research Assistant – Data Analyst <ul style="list-style-type: none">Conducted in-depth data analysis on Alzheimer's disease progression factors, resulting in insights crucial for enhancing cognitive assistant technology development, leading to a 70% reduction in data processing time.Utilized Python for manipulating, wrangling research data, and Power BI in the generation of illustrative data visualizations that effectively tell the story of outcomes, aiding in the effective communication of findings in meetings.Delved into data to find patterns by conducting exploratory data analysis and statistical analysis with critical thinking and meticulous attention to detail.Employed data mining to predict cognitive scores with an accuracy rate of 85%, providing valuable insights into disease progression and treatment efficacy.	<i>Aug 2022 – Dec 2022</i>
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Graduate Research Assistant – Web Application Developer <ul style="list-style-type: none">Contributed to the development of website functionality for the VCIPL Dementia project, sponsored by the National Institute of Health. Utilized innovative cognitive assistive technology to enhance the quality of life for dementia patients while providing relief to caregivers during their absence.Collaborated in the design and development of key components such as the login page, primary interface, and layout pages of the website. Utilized Python, Flask framework, HTML, and CSS to ensure a seamless and user-friendly experience.Implemented MYSQL as the database solution for the website to efficiently store and manage information, ensuring data integrity and accessibility.	<i>Jan 2022 – Jul 2022</i>
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Data ERP Systems <i>Data Analyst</i> <ul style="list-style-type: none">Conducted statistical analysis on datasets, collaborating with HR and finance teams, resulting in a 20% increase in efficiency. Utilized SQL and Python to process records and uncover actionable insights.Implemented data modeling solutions, reducing processing time by 30% and ensuring data consistency and data quality.Created 10+ customized interactive Tableau dashboards for quick access to key metrics, increasing engagement by 25%.Developed key performance indicator’s(KPI) for HR and finance teams, such as Employee Turnover Rate and Gross Profit Margin and informed strategic decision-making with data-driven insights.	Hyderabad, India <i>Sep 2020 – Nov 2021</i>
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Project Experience

Driver Injury Severity Analysis in Automobile Crashes <ul style="list-style-type: none">Led in-depth analysis of U.S. Department of Transportation crash data, utilizing advanced data balancing and segmentation techniques to develop unbiased predictive models; achieved an 81.01% accuracy and 0.91 ROC using KNIME with a focus on random forest algorithm, and conducted impactful sensitivity analysis uncovering critical factors influencing injury severity.	<i>Aug 2023 – Dec 2023</i>
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ETL and Data Warehousing <ul style="list-style-type: none">Crafted an operational data warehouse utilizing SSMS and SSIS to facilitate the Business Intelligence team in constructing executive dashboards for 96,577 sales transactions from Healthy Options, Inc. Engineered and implemented FACT and DIMENSION tables, orchestrating an ETL process for smooth data preparation. This initiative not only facilitated efficient analysis but also empowered business executives to address pivotal inquiries.	<i>Jan 2023 – May 2023</i>
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Food Partnering Services Analysis <ul style="list-style-type: none">Scraped restaurant-specific data from Uber Eats based on location using Python web-selenium driver, refining over 5000 records for analysis, and delivering strategic insights through sentimental analysis to empower new emerging merchants with effective collaboration strategies.	<i>Jan 2022 – May 2022</i>
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Skills

Data Analysis: RapidMiner, SPSS, R, SAS, SSRS, MS Access, Microsoft Excel (Power query,VBA,Pivot tables), MS SQL Server
Data Preparation: Cleaning, Transforming, Imputation, Handling missing data, Encoding
Statistical: Statistical Testing (Hypothesis, A/B, ANOVA), Cross Tabulation, Correlation, Descriptive Statistics, Inferential Statistics, Confidence Intervals, Time Series Forecasting, Regression
Machine Learning: Text Analysis, Web Mining, Feature Selection, Supervised Learning, Unsupervised Learning
Big Data: Hadoop, Spark, Kafka, Hive, Airflow
Libraries: Visualization(matplotlib,seaborn,ggplot2), Manipulation(pandas,numpy,dplyr,tidyr), Machine Learning(scikit-learn, TensorFlow)
Other: Git ,GitHub, Bash, PowerShell, MS Office Suite, Google Suite, AWS (EC2,S3,lambda), MATLAB

Volunteer and Leadership

- Led the amrita badminton team as captain for **3** years, guiding the team to success in competitions and events.
- Actively organized events and workshops for the data analytics club, fostering a collaborative learning environment.
- Showcased dedication and teamwork as a team bowler for OSU stillwater in the tristate cricket league.

Competitive Experience

• DATATHON by the OSU Center of Data Analytics	<i>2023</i>
• Humana Mays Healthcare Analytics Case Competition	<i>2023</i>