

# Sai Pavani Cheruku

**Summary:** Currently pursuing a Master's in Business Analytics with approximately 7 years of professional experience. Strengths in statistical, business data analysis, problem-solving, using Excel, Python, R, and Tableau. Excellent capability in building statistical models, developing dashboards and reports that provide valuable insights. Pioneered the idea of using predictive analytics tools to increase the efficiency of testing at my previous job. Recognized as a visionary and creative thinker with strong analytical skills adept at conceptualizing solutions that align advanced analytics with firm's strategies to meet its objectives.

CONTACT INFO:	EDUCATION
 New York City/Jersey City  <a href="mailto:pv.n.rdy@gmail.com">pv.n.rdy@gmail.com</a>  (631) 829-4022  <a href="https://www.linkedin.com/in/saipavanicheruku/">www.linkedin.com/in/saipavanicheruku/</a>	<b>Zicklin School of Business, Baruch College, City University of New York</b> <b>Dec 2022</b> <i>MS in Business Analytics, Major-Data Analytics (STEM DEGREE). GPA: 3.8/4.0</i> <b>MS Ramaiah Institute of Technology   India</b> <b>May 2014</b> <i>Information Science and Engineering (Bachelor of Engineering). GPA: 8.7/10.0</i>
TECHNICAL SKILLS	ACADEMIC PROJECTS/CASE COMPETITIONS
<ul style="list-style-type: none"><li>Python (NumPy, Pandas)</li><li>R</li><li>SAS</li><li>SQL, MongoDB</li><li>Tableau</li><li>AWS EC2, S3</li><li>AWS Athena, Lambda, Kinesis, Glue</li><li>Apache Spark</li><li>Adobe Analytics</li><li>Machine Learning</li><li>IDE: Jupyter &amp; PyCharm</li><li>Advanced Excel</li></ul>	<b>Adobe Analytics Case Competition using Real-World Disney Data</b> <b>Aug - Oct 2021</b> <ul style="list-style-type: none"><li>Worked on Disney's data using Adobe Analytics tool to perform exploratory data analysis on user segments over orders, loyalty, marketing channels, to help Disney drive customer purchases</li><li>Investigated how abandoned carts are converted into successful orders. Devised strategies to promote this by 'Enabling User notifications', and 'Discount on products in carts'</li></ul> <b>KPMG Virtual Experience Program 2021 Via Forage</b> <b>Oct 2021</b> <ul style="list-style-type: none"><li>Performed analysis with client data against multiple dimensions such as accuracy of key attributes, completeness of required attributes, consistency of attributes across data sets, timeliness of data.</li><li>Summarized the client data into different segment groups. Assisted in transforming the data into actionable insights in the form of data visualizations, reports, and dashboards using Tableau</li></ul> <b>Major League Baseball Data Analysis</b> <b>Oct - Dec 2021</b> <ul style="list-style-type: none"><li>Used Pandas and NumPy to make various statistical decisions as part of descriptive analysis. Predicted likelihood of win/loss using the historical league data utilizing logistic regression in Python's sklearn.</li><li>Utilized data wrangling techniques to process and clean data making it suitable for data analysis. Analyzed multiple metric trends over years using matplotlib and seaborn visualizations.</li></ul> <b>Breast Cancer Wisconsin Data Analysis Using Machine Learning</b> <b>Oct - Dec 2021</b> <ul style="list-style-type: none"><li>Cancerous cell prediction modelling by applying machine learning techniques on cancer data. Implemented KNN, Logistic Regression and Decision tree to predict probability of a person suffering from cancer. Utilized confusion matrix to validate the models.</li><li>Calculated the sensitivity, specificity, accuracy, and precision for all three, to analyze the best model for cancerous cell prediction.</li></ul> <b>Medical Clinic Relational Data Base Design Project</b> <b>Oct - Dec 2021</b> <ul style="list-style-type: none"><li>Developed a database management system for a primary care medical clinic to insert, update and manipulate data. Performed Systems analysis and developed ER model for medical clinic DB.</li><li>Enhanced the ER model using logical modeling and normalization. Physical database implementation</li></ul>
COURSE WORK	PROFESSIONAL EXPERIENCE
<ul style="list-style-type: none"><li>Programming for Analytics (Python)</li><li>Software Tools for Data Analysis (R Programming)</li><li>Managerial Statistics</li><li>Data Visualization</li><li>Data Mining for Analytics</li><li>Big Data Technologies</li><li>Regression Analysis</li><li>Multivariate Statistics</li><li>Data Structures &amp; Algorithms</li><li>Principles of Database Management Systems</li><li>Business Intelligence</li><li>Programming in Java</li></ul>	<b>Lam Research</b> <b>Jul 2014 - Mar 2021</b> <b>Software Engineer Senior II (Data Science Engineer)</b> <ul style="list-style-type: none"><li>Pioneered use of predictive analytics to analyze structured and unstructured data from defect log, production data from defect logs, production incidents to provide 360-degree view of the functionality</li><li>Performed regression and correlation techniques between various applications modules, based on defect data which helped the team to make informed decisions on optimal test coverage.</li><li>Lead the team in the creation of databases for test execution results with logs, device vitals, event logs, server parameters, code change lists, commit-related metadata.</li></ul> <b>Software Engineer Senior I (Automation Engineer)</b> <ul style="list-style-type: none"><li>Analyzed previous defects, production incidents, end-user feedback and provided feedback on the software development process and bug patterns and this helped to detect defects early</li><li>Developed, modified, and executed software test plans, automated scripts, and test programs. Maintained documentation of test results to assist in debugging and modification of software</li></ul> <b>Software Engineer 1 &amp; 2 (Automation Engineer)</b> <ul style="list-style-type: none"><li>Worked with product owners &amp; developers to interpret the test needs and created test cases, test scenarios, and automation scripts.</li><li>Responsible for testing data to ensure compliance with specifications; presented recommendations on test coverage and software component design through thorough analysis.</li></ul>
VOLUNTEERING	CERTIFICATIONS
<ul style="list-style-type: none"><li>Make a Difference</li><li>Make a Wish</li></ul>	<b>EDX:</b> Excel for Data Analysis, R for Data Science, Python for Data Science <b>Coursera:</b> SQL for Data Science, Tableau for Data Visualization, Google Analytics (Currently Enrolled)
SPOKEN LANGUAGES	
<ul style="list-style-type: none"><li>English</li><li>Hindi</li><li>Telugu</li><li>Kannada</li><li>Tamil</li></ul>	
HOBBIES	
<ul style="list-style-type: none"><li>Dancing</li><li>Music (Piano &amp; Violin)</li><li>Girls who Code</li></ul>	