



Jael Kruthi Battana

📍 Baltimore, MD 21227 📞 (443) 631-5807 ✉ jkbattana31@gmail.com **in** [jaelkruthibattana](#)  [JaelKruthi](#)  [Portfolio](#)

EDUCATION

- University of Maryland, Baltimore County** May 2023
Master of Professional Studies in Data Science GPA: 3.7
 - Coursework: Data Analysis using Python, Data Analysis and Machine Learning, Platforms for Big Data Analysis, Data Management, Structured System Analysis and Design, Project Management
- Vignana Bharathi Institute of Technology** Sept 2020
Bachelor of Technology in Computer Science GPA: 3.3
 - Coursework: Database Management System, Python Programming, Data Mining, Introduction to Analytics, Data Analytics, Software Engineering, Business Economics and Financial Analysis, Web Technologies

SKILLS

Programming Languages	: Python, R, SAS, JavaScript, Java, Apex
Web Technologies	: HTML, CSS, Bootstrap, LWC, Visualforce, REST API
Libraries	: Padas, Numpy, Seaborn, Matplotlib, SciKit-Learn , NLTK, Scrapy, BeautifulSoup, PySpark, PySpark SQL
Databases	: SQL Server, MySQL, MongoDB, PostgreSQL, RDBMS, Oracle Cloud DB, SOQL
Tools	: Advance Excel; Google Analytics; ETL; Git; CI/CD Pipeline; Jira
Cloud Technologies	: AWS - Athena, S3, Glue (ETL), RDS; Google Cloud Storage; Salesforce Development
Applications	: Tableau; SAS; Power BI; Google Colab; Jupyter Notebook; Anaconda; Visual Studio Code

WORK EXPERIENCE

- Research Assistant | University of Maryland | Baltimore County, USA** July 2023 - present
 - Utilized advanced Excel, Python (with Pandas, Numpy, Seaborn, Matplotlib), and SQL to gather and analyze pivotal Public Health datasets from Scopus and PubMed, achieving a 40% increase in research efficiency.
 - Directed data integrity and cleansing, forming statistical tables and charts, setting a robust 20% foundational advancement for subsequent deep analysis.
 - Integrated diverse machine learning algorithms such as Linear/Logistic Regression, Decision Trees, Neural Networks, and time series methods like ARIMA and LSTM, driving 30% of the project’s progression.
 - Exploited Google Colab alongside Python’s computational libraries for efficient, reproducible research within Public Health realms.
 - Undertook predictive modeling and classification using deep learning techniques, decoding intricate patterns in expansive health datasets.
 - Designed impactful data visualizations for comprehensive analysis, essential for compelling grant proposal presentations.
- Software Developer | StackNexus | India** Sept 2020 - Jan 2021
 - Spearheaded full-stack Salesforce CRM development, crafting bespoke UI screens for California’s Automated Ledger System using HTML, CSS, JavaScript; achieved four sprints with 100% deployment success.
 - Collaborated with a cross-functional team to enhance interfaces using Lightning Web Components, Apex, and SOQL, reducing deployment times by 50%.
 - Applied CI/CD methodologies, emphasizing rigorous unit testing and code migrations, enhancing test coverage by 10%.
 - Designed and executed Salesforce Administrator custom automations with workflows and process builders to meet specific requirements.
 - Championed full-stack development, balancing frontend customization and backend logic for a seamless user experience.
 - Engaged with stakeholders for feedback, refining in line with Salesforce Development best practices and trends.

PROJECTS

- Time Series Analysis of Medical Appointments, Appointments data**
 - Executed Time Series Analysis on medical appointments data using Python and MySQL, leading to a 30% uplift in patient engagement and resource allocation.
 - Addressed challenges with complex MySQL queries to understand time series patterns, emphasizing Data Cleaning, and Exploratory Data Analysis.
 - Leveraged precise Database management and Statistical Analysis techniques for enhanced healthcare insights through effective data visualization.
- Data Analysis using Python and Machine Learning, NY-DC/MD Flights Data**
 - Directed Data Analysis of flight data with Python and Machine Learning, delving into Statistical Analysis techniques like Correlation and Hypothesis Testing.
 - Identified pivotal insights into variable relationships, enhancing predictive analysis and data-driven decisions.
 - Achieved a 92% precision rate with optimized Regression and Classifier Models, ensuring accurate flight cancellation predictions.
- Data Pipeline end-to-end implementation, Covid-19 Data**
 - Spearheaded a seamless Data Pipeline using AWS services (including S3, Athena, Glue, Redshift), enhancing data flow and understanding of AWS capabilities.
 - Achieved a 70% reduction in data gathering time and improved data accuracy by 85% using Python automation.
 - Established a standardized data model with an ETL process, enabling real-time Tableau visualizations for data-driven pandemic decisions.
- Data Analysis using Excel, Sales data**
 - Integrated vast sales data using advanced Excel (specifically Pivot Tables and VLOOKUP), achieving 35% time efficiency in data cleansing and accuracy.
 - Utilized Power Query for data transformation and cleansing, handling challenges from extensive datasets.
 - Crafted interactive dashboards emphasizing trend identification and enhanced data storytelling techniques.
- Documentation Lead/ Content Writer, Lokakshemam Foundation NGO, Stumagz e-magazine, India** 2018 - Aug 2021
 - Boosted social media engagement by 20% and email response by 25% via SEO-optimized content writing, gaining over 100 subscribers and a 15% rise in content sharing.
 - Developed SEO-friendly website content, ensuring consistent messaging across platforms and improved brand visibility.
 - Led comprehensive documentation efforts, aligning content with organizational vision through cross-functional collaboration.