

Lekha Sree Rapeta

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EDUCATIONS

Data Scientist with a strong Python, Machine Learning, and Data Analytics. Experience in designing and deploying data-driven solutions, predictive modeling, and statistical analysis to solve real-world problems. Skilled in hypothesis testing, A / B testing and feature engineering, with expertise in SQL, OpenSearch, and cloud technologies. Passionate about leveraging data science to optimize business performance and improve decision making.

TECHNICAL SKILLS

Programming Languages: Python (Pandas, NumPY, scikit-learn, TensorFlow, Keras, matplotlib, Flask, Spark, PyTorch, PyCharm)), SQL (PostgreSQL, MySQL), OpenSearch Queries
DevOps and API Tools: GIT, POSTMAN, Rest APIs, GCP, CI/CD Pipelines
Web Developer Tools: HTML, CSS, Javascript, JQuery
AI and Machine Learning: Statistics, Statistical Analysis, Data Modelling, Data Science, Data Analysis, Data Collection, Tableau, Feature Tools, Feature Engineering, AI ML Algorithms, Data Quality, Data Availability, ML Flow, Model Evaluation, Model Deployment, Model Development, Deep Learning, Quantitative Research, A/B Testing, Predictive Modelling
Other Skills: Agile (SCRUM, KANBAN) Jira, Debugging, Root Cause Analysis, Problem-Solving, Logical Thinking, Analytical Skills, Team Collaboration, Leadership

EXPERIENCE

- TCS Consultancy Services | Python Developer** July 2021 – Present
- Developed and optimized machine learning models to detect anomalies and predict system performance, increasing early detection by 30% and reducing downtime by 15%.
 - Designed and implemented A/B tests to analyze customer behavior and optimize user engagement strategies.
 - Engineered data pipelines for real-time analytics using Python, Pandas, and SQL, reducing processing time by 40%.
 - Built fraud detection algorithms using statistical modeling and machine learning techniques, leading to a 25% reduction in fraudulent activities.
 - Collaborated cross-functionally with DevOps and cloud teams to deploy ML models into production, ensuring scalability and efficiency.

PROJECTS

- TCS Clever Energy | Python, Flask, Pandas, Kafka, PostgreSQL, Machine Learning, ETL** June 2023 – Present
- Developed a predictive energy consumption model using ML algorithms like Linear Regression and Random Forest, improving forecasting accuracy by 30%.
 - Designed an ETL pipeline that processed 5TB of energy data, leveraging Apache Kafka and Python, reducing data latency by 40%.
 - Implemented time series forecasting to optimize energy demand predictions, leading to cost savings and better resource allocation.
 - Automated reporting and data analysis workflows, improving decision-making speed by 50%.
 - Optimized database queries and integrated machine learning models with PostgreSQL and OpenSearch, improving query speed by 20% and enabling real-time analytics.
 - Testing API and Data in OpenSearch using the tool POSTMAN, automated testing scripts, and Quality Testing using Python to maintain software.
- Mars Global Inc | JavaScript, HTML, CSS, SQL, JIRA, DevOps, Postman, API** March 2024 – April 2024
- API Integration: Implemented API components using Postman to ensure seamless data exchange.
 - Followed the AGILE methodologies to give more outcomes within efficient time and well-managed
 - I was directly involved with the client for scrum, retrospective, and backlog grooming calls. All of them were managed using JIRA management tools, sprint-wise.
 - Maintained Scalability and efficiency of Code even while working on critical enhancement with cross-functional and team Discussions with other developers.

EDUCATIONS

Vignan Institute of Information Technology
Degree in Bachelors of Technology(Gradute)

Visakhapatnam, Andhra Pradesh
July. 2017 – May 2021