

Aspiring Data Scientist having 2+ years of experience as software engineer with hands-on project experience in machine learning, LLM fine-tuning, and full-stack development using Python and JavaScript. Passionate about solving real-world problems through data and learning new technologies.

## Skills

- **Statistics:** Descriptive Statistics, Inferential Statistics, Hypothesis Testing, ANOVA, t-test, z-test, Probability & Distribution
- **Database:** SQL, Mongo DB
- **Visualization:** Matplotlib, Seaborn
- **Machine Learning & AI:** Supervised and Unsupervised algorithms, NLP, LLMs, Neural Networks
- **Programming:** Python, JavaScript, SQL
- **Others:** GitHub, ReactJS, NodeJS, ExpressJS, Jira Agile development, AWS.

## Work Experience

### SOFTWARE ENGINEER, – Optimizory – Jaipur, India October 2023 - Present

- Collaboratively developed and maintained applications for the **Jira Marketplace**.
- Worked on two key applications like **PACT** and **Links Explorer**, enhancing project management and issues exploration capabilities for users.
- Contributed to improving the overall efficiency by **40%** and optimized the speed of applications **up to 60%**, Improved performance of the development team through innovative solutions and effective collaboration.
- Made **Links Explorer** the most used application for **project management** in **Jira marketplace**.

### SOFTWARE ENGINEER – MOODRAA- E – Mumbai, India September 2022 - January 2023

- Implemented front-end functionalities using **ReactJS**, ensuring responsive design.
- Daily maintenance of code, debugging issues, and solving clients' problems.
- Worked on mobile app development and created major features on it.

## Projects

### FINE TUNED LLM MODEL FOR CHATBOT

- Utilized the **llama2finetune-v2** model as the base model for **generative AI**.
- Trained model on various PDF data like **Python Programming, Software Engineering, Medical terminologies**.
- Enhanced the model using specialized medical datasets to improve its performance in healthcare-related **NLP** tasks.
- Skilled in **machine learning, fine-tuning models**, and creating **tokenization** for predictions.

### CANCER DIAGNOSIS

- Successfully analyzed Cancer diagnosis data and built a predictive model.
- Utilized interactive **visualizations** and data filters to enhance data exploration and inform decision-making.
- Used **K-Fold cross-validation** technique to avoid **overfitting**, Designed and compared models like **Support Vector Machine (SVM), Random Forest Classifier, and Logistic Regression**.

### CREDIT CARD CAMPAIGN

- Created a credit card churn out classification model using **Logistic Regression, SVM, Naive Bayes, Random Forest models**, achieving up to 80% accuracy.
- Handled class misbalancing using **Stratified Sampling and ROC AUC Curve** and Used **Grid Search CV** for **hyper parameter tuning**.
- Applied **KNN Imputer method** to handle outliers & used model evaluation metrics like **Precision and Recall**.

## Education