

SOURAV KUMAR

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EDUCATION

Master's of Computer Applications, GL Bajaj Institute of Technology and Management Dec 2022 - Aug 2024
Bachelor's of Computer Applications, GL Bajaj Institute of Management, India Jul 2018 - Aug 2021

EXPERIENCE

Software Developer Sep 2021 - Aug 2022
Ozdocs India Pvt Ltd *Noida, India*

- Streamlined database operations using MySQL, improving query performance by **40%** and enhancing reporting accuracy by **25%**.
- Optimized existing codebase, reducing software errors by **50%** and improving efficiency.
- Resolved application issues promptly, reducing downtime by **15%**.
- Engaged in collaborative code reviews and knowledge-sharing sessions, increasing team productivity.

PROJECTS

Plant-Disease-Detection | Python, Kaggle, Jupyter Notebook, Flask, PyTorch, React.js

- Developed a plant disease detection with PyTorch, covering data collection on Kaggle to model deployment, and increased the model accuracy to **93%**.
- Fine-tuned hyperparameters such as learning rate, batch size, and optimizer settings to optimize model.
- Orchestrated dataset acquisition from Kaggle, executed complex data preprocessing and trained a CNN model for accurate detection.

Breast Cancer Prediction | Python, Scikit-learn, Pandas, Matplotlib, Seaborn

- Worked with a clinical/health-related dataset and addressed healthcare-specific classification challenges, enhancing model relevance for medical applications.
- Built and fine-tuned machine learning models (Logistic Regression, SVM, Random Forest) to classify breast cancer tumors with up to **98.24%** accuracy using the Breast Cancer Wisconsin Dataset.
- Applied hyperparameter tuning techniques using GridSearchCV to optimize model performance, resulting in significant accuracy improvements.
- Performed detailed model evaluation using key metrics like precision, recall, F1-score, and accuracy to ensure reliability in real-world diagnosis scenarios.

SKILLS

Programming Languages: Python, C/C++, SQL.
Data Science Machine Learning, Deep Learning, Data Analysis, Data Visualization, EDA, ETL.
Libraries/Frameworks: Keras, TensorFlow, PyTorch, NumPy, Pandas, Matplotlib, Seaborn.
Tools: Jupyter Notebooks, Git, GitHub, Google Colab, Visual Studio IDE, POSTMAN.
Soft Skills: Self-starter, Adaptability, Team Player, Problem-Solving, Effective Communication.
Others: Data Structures, Algorithms, OOPS, RESTful API.

LEADERSHIP/EXTRACURRICULAR

- Orchestrated a cross-functional team of interns to eliminate a high-priority bug, achieving **100%** resolution rate, resulting in a flawless deployment and showcasing exceptional leadership and technical problem-solving abilities.