SURAJ KUMAR

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Professional Summary

Building a strong foundation in Machine learning, Deep learning, and Data analysis. Passionate about building robust models, optimizing data pipelines, and developing innovative AI-driven solutions. Eager to apply these skills to a dynamic team to solve challenging real-world problems.

EDUCATION

University of Petroleum and Energy Studies   Aug 2024 – Present
Master of Computer Applications   *Dehradun, India*

Bhagwan Mahavir University   Aug 2021 – May 2024
B.Sc in Data Science   *Surat, India*

Publications

Book Chapter: "Elevating Large Language Models' Comprehensibility with SHAP Values" *In: Revolutionizing Machine Learning with Large Language Models: Security, Scalability, and Sustainability*
Series: Advancements in Mist AI and AI-Driven Cloud Networking

TECHNICAL SKILLS

Languages: Python, C, C++, SQL
Machine Learning: Model Development, Deployment, Supervised & Unsupervised Learning, Deep Learning, Generative AI, Natural Language Processing
Data Handling: Data Preprocessing, Feature Engineering, Data Pipeline Management, Web Scraping
Libraries & Frameworks: NumPy, Pandas, Matplotlib, Seaborn, Plotly, Scikit-learn, XGBoost, LightGBM, CatBoost, TensorFlow, PyTorch, NLTK, LangChain, Selenium
Tools & Technologies: Streamlit, Linux, Git, GitHub
Soft Skills: Problem Solving, Analytical Thinking, Collaboration, Communication, Time Management, Adaptability

PROJECTS

Breast Cancer Diagnosis Predictor ⧉   Mar 2025 - Aug 2025

- Built an interactive Streamlit web app to predict breast mass malignancy using the Breast Cancer Wisconsin Dataset.
- Implemented end-to-end ML workflow: preprocessing, model training, serialization, and backend integration.
- Added dynamic radar charts, custom CSS, and color-coded badges for intuitive visualization; packaged app for easy deployment.

Laptop Recommendation System ⧉   Feb 2025 – Mar 2025

- Curated and preprocessed 1000+ laptop specifications, engineering key features for model training.
- Built a content-based recommendation engine using that suggest the top 3 laptops.
- Developed an interactive Streamlit app with forms, predictions, and file upload; deployed with a modular, scalable structure and optimized inference time.

Certificates

Data Science Mentorship Program (DSMP) - CampusX   Feb 2024
Highlights: Machine Learning & Fundamentals of MLOps.
SQL for Data Science - Coursera   Oct 2025
Highlights: Learned SQL queries, joins, aggregations, and basic database handling.

Achievements

Regular contributor on Medium and personal blog, focusing on simplifying Machine Learning concepts and building AI-driven applications.