

# 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**

**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.