

SHIVAM SEN

Roorkee, Uttarakhand, India

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EDUCATION

Quantum University

Bachelor of Technology in Computer Science - Data Science

Roorkee, Uttarakhand, India

Aug 2023 – Aug 2027

TECHNICAL SKILLS

Programming Languages: Python, SQL, C, C++, JAVA, JavaScript, Flutter, Dart, R

Data Science & ML: Machine Learning, Data Analytics, Statistical Modeling, Feature Engineering, Predictive Modeling

Libraries & Frameworks: Pandas, NumPy, Scikit-learn, XGBoost, Random Forest, Linear Regression, Matplotlib, Seaborn, OpenCV, Google MediaPipe

Tools & Technologies: Power BI, Jupyter Notebook, Git, Excel, Data Visualization, Dashboards

Core Competencies: Exploratory Data Analysis (EDA), Big Data Analytics, Hyperparameter Tuning, Model Evaluation

PROFESSIONAL EXPERIENCE

Shell India Market Private Limited

Data Science Intern

Roorkee, Uttarakhand, India

Feb 2025 – Mar 2025

- Developed end-to-end machine learning pipeline to predict Air Quality Index (AQI) using environmental parameters, achieving optimized model performance through systematic hyperparameter tuning and algorithm comparison

Edunet Foundation

Student Intern

Roorkee, Uttarakhand, India

Jun 2024

- Contributed to team-based data analytics projects, applying data science methodologies to solve real-world business problems while consistently meeting project deadlines and quality standards

PROJECTS

Air Quality Index (AQI) Prediction System

Python, Scikit-learn, XGBoost

- Built comprehensive machine learning pipeline for AQI prediction using ensemble methods and feature engineering, achieving R² score of 0.85+ through systematic model optimization and validation
- Implemented data preprocessing, exploratory analysis, model training, and result interpretation workflows with complete documentation

Computer Vision Applications

Python, OpenCV, MediaPipe

- Developed real-time computer vision applications using OpenCV and Google MediaPipe for image processing and gesture recognition
- Implemented object detection and tracking algorithms for practical use cases

CERTIFICATIONS

Introduction to Data Science

PwC Switzerland - Power BI Job Simulation

AI and Data Scientist - Getting Started with Enterprise-grade AI