Sanjana Uprety

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EDUCATION

Roorkee Institute of Technology — **Roorkee, Uttarakhand**
B.Tech in Computer Science and Engineering, GPA: 7.38(till 5th sem) — October2022– Present

Jawahar Navodaya Vidyalaya — **Pfukhro Mao, Manipur**
Higher Secondary Education (Class 12) Percentage: 79.16% — April 2021- March2022

Roses English High School — **Kanglatongbi, Manipur**
Secondary Education (Class 10) Percentage: 82.6% — March 2019- March 2020

PROFESSIONAL SUMMARY

I am a final-year B.Tech student in Computer Science and Engineering with a strong interest in data science and machine learning. I have hands-on experience working with Python, data visualization, tools and machine learning techniques. I am interested in building models, exploring data, and using tools like Git, Jupyter Notebook and Streamlit. I have a clear understanding of core concepts and always try to learn new skills. I am responsible, cooperative, and always ready to take on real-world challenges with a positive mindset.

TECHNICAL STACK

Data Science / Machine Learning: Python, Data Visualization, Exploratory Data Analysis (EDA), Supervised and Unsupervised Learning, Classification (KNN, SVM), Regression, Clustering, Feature Engineering, Ensemble Learning.
Mathematics for ML: Algebra, Probability, Statistics, Calculus, Matrices.
Python packages: Scikit-Learn, Matplotlib, Seaborn, NumPy, Pandas, Plotly.
Programming Languages: Python, C++, C .
Database: MySQL
Environments/Tools: Jupyter Notebook, Google Colab, Kaggle, Git, GitHub, Streamlit.

INTERNSHIP AND TRAINING

Data Science Training
Intern boot, Remote — **14th July 2025- Present**

- Hands-on training in real-world machine learning workflows, including data cleaning, exploratory data analysis (EDA), model building, and evaluation using Python and Scikit-learn.
- Build supervised learning models and performed hyper parameter tuning to improve accuracy and reduce overfitting.
- Learned deployment techniques by converting ML models into interactive web apps using Streamlit, and publishing them for public use via GitHub and Streamlit Cloud.

PROJECTS

Crop Recommendation App

- Built a machine learning model to recommend the best crop based on soil and weather features (**N, P, K, temperature, humidity, pH and rainfall**).
- Achieving **98% accuracy** using a **Random Forest Classifier**.
- Developed a **Streamlit** web app for real-time user input and prediction.
- Version-controlled the project using **Git** and hosted it on **GitHub**.
- Deployed the app on **Streamlit Cloud** for public access.

- **Link:** 🔗 Live App| GitHub Repo

Telecom Customer Churn Prediction App

- Developed a machine learning model using **AdaBoost** with **DecisionTree base**, achieving **83% accuracy.**
- Tuned **hyperparameters** with **GridSearchCV** to optimize model performance.
- Trained on **customer features** such as **Contract type, InternetService, TechSupport, PaymentMethod etc.**
- Built an interactive **Streamlit** web app for real-time churn prediction.
- Used **Python, scikit-learn, pandas, Git, and Streamlit Cloud for deployment.**
- **Link:** 🔗 Live App| GitHub Repo

Credit Card Fraud Detection System

- Built a **Random Forest Classifier** model to detect fraudulent credit card transactions from a highly **imbalanced dataset.**
- Achieved high performance with **99.97% accuracy, 92.0% precision and 82.6% recall, 86.9% F1-score** on the fraud class.
- Handled class imbalanced using **SMOTE a**nd optimized model performance through **GridSearchCV.**
- Pre-processed and analysed **anonymized features (Time, V1-V28, Amount)** using **scaling** and **correlation techniques**.
- Used **Python, Pandas, Scikit-learn, imbalanced-learn** and **matplotlib** for analysis and visualization.
- **Link**: 🔗 GitHub Repo

CERTIFICATES

Data Science 101
IBM Developer Skills Network, cognitiveclass.ai **08 July 2025**

SQL and Relational Databases
IBM Developer Skills Network, cognitiveclass.ai **08 July 2025**

ICAETC-2023
Taylor and Francis Group, BBDITM Lucknow **21-22 Dec 2023**

Python 3.4.3 Training
Spoken Tutorial Project, IIT Bombay, Roorkee Institute of Technology **04 Dec 2023**

ACHIEVEMENTS

- Secured **2nd Position** in **Technopia, 2024 Annual Techno-Cultural Fest**, DIT University, Dehradun.
- Presented a research paper titled **Machine Learning as a hedge against Phishing in International Conference on Advances in Emerging Trends in Computer Application (ICAETC-2023)** organized by the Department of Computer Science and Engineering**, Babu Banarasi Das Institute of Technology and Management, Lucknow on 21-22 December 2023**.

EXTRACURRICULAR ACTIVITIES & LEADERSHIP

- Secured **2nd Position** in **Inter-Collegiate Kho-Kho Tournament** held at JBIT, Dehradun/ October 2023.
- Appreciated for contributing as **a Student Volunteer in SPORTECH 2023 & 2024** Organizing Committee, Roorkee Institute of Technology.