Shubham
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Gender: Male

Summary

- I have experience in building and optimizing machine learning and neural network models, deriving actionable insights through data analysis, and solving data challenges. Passionate about applying my skills to impactful projects, I actively participate in Kaggle competitions to refine my expertise and tackle real-world problems.

Education

- **Indian Institute of Information Technology, Lucknow** — Lucknow, IND
  Master of Technology in Computer Science; SGPI: 9.09/10 — *2020 - 2022*
- **Hemvati Nandan Bahuguna Garhwal University (A Central University)** — Srinagar Garhwal, IND
  Bachelor of Technology in Computer Science & Engineering; CGPA: 6.92/10 — *2015 - 2019*

Experience

- **Deloitte USI** — Bangalore, IND
  Consultant — *2023 - Present*
  - **Loan Approval Prediction** **Tech Stack:** Python, scikit-learn, Keras, Numpy, Classification, Logistic Regression, Decision Tree, SQL.
    - Developed and fine-tuned classification models to predict loan approvals, improving model performance.
    - Performed feature engineering, data preprocessing, and implemented cross-validation to ensure robust model performance.
    - Created an end-to-end pipeline and deployed the model in a production environment.
  - **EMI Amount Prediction** **Tech Stack:** Python, scikit-learn, Keras, Numpy, Regression, XgBoost.
    - Built regression models to predict Loan interest rate and EMI amount with optimized feature selection and regularization techniques.
    - Automated end-to-end workflows for data extraction, preprocessing, and model training using Python and scikit-learn.
    - Delivered actionable insights through data visualization, enhancing decision-making for underwriting teams.

Projects

- **Multi-Network Based COVID-19 Detection using Chest X-ray Images**: The goal is to detect COVID-19, Bacterial Pneumonia, Viral Pneumonia, Normal and Not Normal(Non-COVID, Non-Pneumonia) in the Chest X-ray images. I have used DNN models and fine tune them to detect the diseases. **Tech Stack**: Python, CNN, Matplotlib, Keras, Numpy.
- **Image Classification using CNN**: The goal is to build classification model that is trained to recognize various classes of images using CNN. **Tech Stack**:Python, TensorFlow, Keras.
- **Boundary Detection of an Image**: The goal is to identifying points in a digital image at which the image brightness changes sharply or, more formally, has discontinuities aka Edge detection. **Tech Stack**:Python, OpenCV, Matplotlib.

Skills

- **Technical Skills:** Python, Machine Learning (scikit-learn, Keras, TensorFlow), SQL, Data Preprocessing, Feature Engineering, Model Tuning, Regression, Classification, Clustering, Data Visualization (Matplotlib, Seaborn), NLP, Predictive Modeling, Langchain, Chroma, FAISS.
- **Areas of Interest**: Advanced Machine Learning Techniques, Artificial Intelligence, Predictive Analytics, Data Structures, Algorithms, Data-Driven Problem Solving, and Computational Models.

Achievements and Certifications

- **University Silver Medalist**
- **Certificates**: Programming for Everybody, Problem Solving and Learning Python.