SANKET SURESH PATIL

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EDUCATION

Vishwakarma Institute of Technology, Pune   **CGPA - 8.46**
B.Tech - Information Technology (2020-24)

Kendriya Vidyalaya C.R.P.F , Nagpur HSC (12th)   **78.6%**
C.B.S.E Board (2018-19)

Kendriya Vidyalaya C.R.P.F , Nagpur SSC (10th)   **CGPA - 9.4**
C.B.S.E Board (2016-17)

EXPERIENCE

MSCI Inc.   **January 2024 - Present**
ESG Research Intern   *Mumbai, India*

- **Researched ESG**(Environmental,Social and Governance) **financial methodologies** and associated **risks** for companies.
- Developed and implemented **automated quantitative and qualitative models**, contributing to 20% of the ESG analysis process.
- Utilized advanced data processing techniques, robust error handling, and comprehensive data analysis to optimize ESG analysis workflows.
- **Co-Created Interactive ESG Dashboard (Streamlit & Chloropleth)** :
  Effectively visualized ESG metrics data and ratings, providing valuable insights for organizations and investors.
- Actively engaged in migration of ESG Models to the Databricks platform, ensuring efficient operation on the distributed system and enabling real-time ESG data updates.

PROJECTS

1. **PowerCo Churn Analysis (BCG Data Science Virtual Program)** ⭘ <u>Link</u> | *EDA Analysis, Feature Eng., Random Forest.*
   - Implemented a 5-step EDA approach and Random Forest Modeling to analyze and identify most factors contributing to churn.
   - Pinpointed factors with strongest drivers and Delivered actionable insights.
   - Achieved an impressive 85% accuracy in predicting customer churn

2. **Ayurvedic (Medicinal) Plant Classification** ⭘ <u>Link</u> | *CNN, Random Forest, Decision Tree, SVM, KNN.*
   - Leveraged **ensemble learning techniques** to develop a model that achieved an impressive **93% accuracy** in detecting and classifying various Ayurvedic plants
   - Created a user-friendly web application using a powerful Python Flask server to integrate the model, providing a smooth user experience.

3. **Captcha Recognition** ⭘ <u>Link</u> | *CNN, Image Processing.*
   - **Developed** a high-accuracy (94.8%) Captcha recognition system using a **CNN model** and **image processing techniques** in a team of 5 .
   - Further improved efficiency by identifying and manually addressing **frequently occurring Captcha types.**

PUBLICATIONS

- Mood Detection and Emoji Classification using Tokenization and Convolutional Neural Networks:
  (**IEEE Xplore**, June 08, 2023)
- Predicting Heart Disease Risk in Diabetic patients using a Pipeline of Ensemble Learning and XAI-Enhanced Approaches: (**Under Publication** in IEEE Xplore) - **Approved by IEEE
- Early Phase Detection of Bacterial Blight in Pomegranate Using GAN Versus Ensemble Learning:
  (**Springer Nature**, 31 May 2024) -

ACHIEVEMENTS / EXTRACURRICULAR

- **HACKFEST ADWAITA-2023 National Hackathon** Winner (IIIT Bhubaneswar)
  Engineered a full-fledged Android **logistics app** to connect leftover food donors with NGOs and organizations efficiently.
- **Credit Suisse Global Coding Competition** 2022 - **Ranked 217th globally and top 150th in India**
- **1st Place Winner out of 200+ Teams** - TechSocho National Level Virtual Hackathon(Captcha Recognition -Cyber Security Theme)

TECHNICAL SKILLS

Languages: Python ,Java ,C++ ,SQL ,PySpark.

Technologies/Frameworks: Pandas, Numpy , Scikit learn, TensorFlow , NLTK(Natural Language ToolKit).

Developer Tools: Git, Excel, Linux, Power Bi, Figma.

Relevant Coursework: Advanced Data Structures, Data Science, Machine Learning and Deep Learning, Database Management Systems, Artificial intelligence, Cloud Computing.