Siddharth Kalla

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EXPERIENCE

- **Climate Connect Digital, Gurugram** *Sept 2022 - Present*
  Machine Learning Engineer
  - *Created and deployed a cutting-edge research and analytic dashboard on Google Cloud Platform (GCP), boosting team efficiency and slashing **research time by an impressive 60%**.*

  - *Developed bi-directional trading signal forecasting models, including Logistic Regression and SVM, for voluntary carbon market data. The goal was to achieve a net profit exceeding **$15,000** within the next 3 months.*

  - *Pioneered a project similarity scoring system using density-based clustering, which emerged as a key component of the overall dashboard.*

  - *Automated the design process for the firm's portfolio, resulting in a meticulously crafted **$50,000** portfolio aligned with desired **risk-to-reward** techniques. Also automated the risk metrics for teams risk department.*

  - *Demonstrated versatility by actively participating as a trader, successfully closing deals totaling over **$20,000**.*

- **Indian Institute of Technology, Roorkee** *Apr 2021 – Oct 2021*
  Research Intern
  - *Worked on Physiological Data for Classification of raw sensor data for different stress types using deep learning techniques such as **MLP, CNN and RNN, LSTM** and **successfully turned it into a published research** (Link in projects section).*

  - Understood the working of **residual networks** and designed ResNet50 from scratch.

- **Tantrabyte Pvt. Ltd., Delhi** *Jun 2020 – Aug 2020*
  Artificial Intelligence Research Intern
  - *Worked as a researcher and developed **CNN** layers from scratch which gave a detailed understating about working of neural networks.*

EDUCATION

- **Vellore Institute of Technology, Vellore** *Jul 2018 – Jul 2022*
  Bachelor of Technology (B. Tech) in Electronics and Communication Engineering (ECE) CGPA: **8.68/10**

  Relevant Coursework: Statistics for Engineers, AI with Python, Essentials of Machine Learning, Applied Linear Algebra

SKILLS

- **Technologies** - Machine Learning, Deep Learning, Data Analytics
- **Programming Languages** - Python, C++
- **Frameworks & Libraries** - NumPy, Scikit-Learn, Pandas, Matplotlib, OpenCV, Flask, GCP, Panel
- **Algorithms** - Supervised and Unsupervised Learning, Linear Regression, Logistic Regression, SVM, Decision Trees, K-Means, Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN)
- **Tools** - Microsoft suits (Excel, Word, Powerpoint)

PROJECTS

- **Two-Day Ahead Load Forecasting**
  - Worked on building a **2-day ahead forecast** model for one of the DISCOM in Delhi. Performed the prediction using multiple models such as RidgeCV and Gradient Boosting with a **MAPE < 6%**.

- **Analysis of Micro State EEG signal through RNN Classification**

  - Detailed analysis of EEG brain wave data and giving a comparative study for outshining performance of **LSTM and CNN** on it.

  - Published research paper in **IEEE Digital Xplore library on 8th Feb 2022– Paper**

- **Stock Close Value Forecasting**
  - Predicted US stock price based on UCI data using various models as Stacked LSTM layers, CNN and ARIMA. (**MAPE : 20-25%**)

LEADERSHIP

- **YoDaS Training Instructor, Gurugram**   Sept *2022 – Dec 2022*

  - Served as the Mentor and Instructor for **15+ candidates** for a 8-week long Data Science Training program conducted by Climate Connect Digital.

- **Indian Society for Technical Education (ISTE), Vellore**   *Nov 2019 – Nov 2020*
  Vice President
  - Managed all the functionalities of the chapter with more than **40+ members**; conducting technical events (**20+** annually).