ADITYA PAIKRAO

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Education

Indian Institute of Technology Kanpur   **July 2017 – May 2021**
Bachelor of Technology in Electrical Engineering; CGPA: 6.5/10   *Kanpur, India*

Relevant Coursework

- ML for Signal Processing
- Image Processing
- Digital Signal Processing
- Intelligent Systems & Control
- Modern Control Theory
- Fundamentals Of Computing
- Introduction to Bayesian Analysis
- Probability & Statistics
- Data Mining & Knowledge Discovery

Awards & Achievements

- Secured an **All India Rank of 127** and was awarded the prestigious **KVPY Scholarship** by the Department Of Science and Technology, Govt. of India in 2016
- Achieved a position of **top 0.9 percentile** in highly competitive **JEE Mains & Advanced Examination** 2017 among over 1.2 million aspiring candidates

Experience

HSBC Asset Management   **June 2021 – June 2024**
Senior Data Scientist   *Bangalore, India*

- Deployed **Data Engineering** pipelines for continuous integration leveraging **PySpark** and **Google Cloud Platform (GCP)** to extract, transform and load (ETL) large datasets
- Web-Scraped annual 10-k financial statements filed by NASDAQ-100 companies and performed sentiment analysis on extracted data using **FinBERT**
- Automated data extraction from unstructured PDFs and Excel report generation using extracted data by implementing **Optical Character Recognition (OCR)** modules
- Implemented time series forecasting models using **Google BigQuery ML** to track fund sustainability performance metrics
- Developed a web-application PoC in **Streamlit** for document Q&A using LLM-based framework **LangChain**

Projects

Amazon Fine Food Reviews | *Course Project, Data Mining & Knowledge Discovery*   **December 2020**

- Implemented an ensemble model of **Naive Bayes, SVM**, and **Random Forest** to perform sentiment analysis on text reviews
- Optimised Model Architecture using hyperparameter tuning, achieving an accuracy of 87%

Neural Style Transfer | *Coursera, Convolutional Neural Networks*   **January 2020**

- Generated novel artistic styled images using transfer learning on pre-trained **VGG-19** model
- Implemented Style and Content cost functions described in NST paper by *Gatys et al.* using **TensorFlow**

Trigger Word Detection | *Coursera, Sequence Models*   **February 2020**

- Synthesized training data and labels by combining audio clips of trigger word, negatives and background noise
- Trained a uni-directional sequence model using **1-D Convolutional layers** and **GRUs** to achieve an accuracy of 94%

Technical Skills

Languages: Python, C, C++, R, SQL
Tools/Frameworks: Google Cloud Platform, PySpark, Git, MATLAB, Tableau, LaTeX
Libraries: PyTorch, TensorFlow, OpenCV, transformers, BeautifulSoup, PyMuPDF, pytesseract

Certifications

- Deep Learning Specialization ↗
- Data Structures & Algorithms Specialization ↗
- DeepLearning.ai TensorFlow Developer ↗

Leadership / Extracurricular

Dance Club IIT Kanpur   **Jul. 2018 - Jan. 2020**

- Organised and managed logistics of multiple cultural events for seamless execution and mentored students
- Represented the institute at Inter IIT Cultural Meet 2018, winning **Third place** in Street Dance Category