TANMAY JAGTAP
Deerfield, Galway, Ireland H918K83|+353874852825 | tanmayjagtap78@gmail.com | LinkedIn |
Github| My Portfolio | Stamp 1G (expected aug 2024)

EDUCATION

University of Galway — *Galway, Ireland*
Masters in business Analytics — **June 2024**

Vivekanand Education Society Institute of Technology — *Mumbai, India*
Bachelor of Engineering in Electronics & Telecommunication Engineering — **May 2018**

TECHNICAL SKILLS

Machine Learning: Tensorflow – keras, Tesseract, OpenCV, Scikit learn, NLTK, SPACY, Langchain, FAISS
Data Science: Python, Pandas, Apache Spark, Flask, Docker
Analytics: PostgreSQL, Plotly, Power BI, Excel
Visualization: Matplotlib, Seaborn, , Streamlit
Process: Power Point, Power Apps, Power Automate, Sharepoint
IDE: Jupyter, Pycharm, VSCode

PROFESSIONAL EXPERIENCE

Sustainalytics, Morningstar — *Mumbai, India*
Associate Manager — **Oct 2022 – Sep 2023**

- Integrated new ML solution seamlessly in current package of solutions and kept track of KPIs to see current tools effectiveness.
- Developed and maintained information systems components, ensuring clean and efficient code.
- Orchestrated numerous Proof of Concepts (POCs) aimed at extracting pertinent data from diverse company-disclosed Environmental, Social, and Governance (ESG) documents, demonstrating a keen ability to navigate complex data sources.
- Spearheaded the gathering of requirements and development of comprehensive Business Requirements Documents (BRDs) for innovative Machine Learning (ML) solutions, enhancing efficiency and clarity in project execution.
- Participated in scrum ceremonies, contributing to sprint planning, retrospectives, and backlog refinement.
- Engineered user-friendly Power Apps tailored for analysts, streamlining the data loading process into the pipeline and enhancing overall operational efficiency.

Research and Innovation, TCS — *Mumbai, India*
Machine Learning Engineer — **Jan 2020 – Oct 2022**

- Leveraged artificial intelligence and machine learning algorithms for standalone products and enhanced existing product offerings. Which led to a 5 times improvement in performance efficiency. And reduced time consumption by 50%
- Written core algorithm for extraction of data from lease documents. [Keras, CNN, Yolo, OpenCV, Tesseract3]
- Co-developed core extraction algorithms to extract metadata field values, and process tables from variable format of invoice document images. Resulted in time reduction of value extraction from lease document by 50%.
- Filled Patent for background removal for scanning ID cards for KYC.
- Developed a core library for information extraction from legal documents (images or text). Integrated the word2Vec model to our core NER model using transfer learning to improve accuracy by 10%. used [Spacy, Nltk]
- Exposed APIs and deployed models using Flask.

Aniruddha Telemetry System — *Mumbai, India*
Computer Vision Engineer — **April 2019 – November 2019**

- Developed Outlier Capsule Detection Machine to serve purpose of segregating capsules according to batch color. It was able to segregate 10k capsules per 10 minutes.
- Used OpenCV with python integrated with Raspberry Pi.
- Designed computer vision system for vehicle Speed Detection using surveillance cameras
- Developed training algorithm to identify patterns in subsequent data.

PROJECTS

Chat with PDF using LLMs [Langchain, Streamlit, GPT, BERT]

- Implemented a chatbot powered by ChatGPT for interactive PDF document interaction, utilizing Huggingface models for enhanced performance.

Face Mask Detection Using RetinaNet and TF-2.1 [TensorFlow, OpenCV]

- Developed a model with 95% accuracy to enforce face mask protocols in work environments during the COVID-19 pandemic.

COVID-19 Open Research Dataset Challenge (CORD-19)[Pandas, Numpy, SK-learn]

- In response to the COVID-19 pandemic, the White House and a coalition of leading research groups have prepared the COVID-19 Open Research Dataset (CORD-19). I tried to visualize this data to verify its spray pattern.

Spotify Music Predictor [Pandas, Numpy, SK-learn, XGBoost]

- Build a model that generates estimation on User's music taste based on features provided by Spotify's music library. Currently I am getting prediction accuracy of 78%

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ACCOMPLISHMENTS

- 1st prize, Datathon 2024, University of Galway
- IP Creation Award, Award for Excellence, Patent Filing (Patent Application No - IN 202121013778)
- 1st Prize, Data Science Hackathon by Greyatom – Insurance claim predictor for travel insurance
- On The Spot Award (08/2021), TCS Research and Innovation
- Cleared TCS Digital Capability Assessment

CERTIFICATIONS

Data Science Masterclass, GreyAtom School of Data Science — Nov 2019
Applied AI with Deep Learning and Signal Processing (IBM), Courcera — Dec 2019
Advance Machine learning and signal processing, Courcera — Aug 2020