

TANMAY JAGTAP

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EDUCATION

University of Galway

Masters in Business Analytics

Galway, Ireland
Sep 2023- Present

Vivekanand Education Society Institute of Technology

Bachelor of Engineering in Electronics & Telecommunication Engineering

Mumbai, India
May 2018

TECHNICAL SKILLS

Machine Learning: Tensorflow – keras, Tesseract, OpenCV, Scikit learn, NLTK, SPACY

Data Science: Python, Pandas, Apache Spark, Flask, Docker, PostgreSQL

Visualization: Matplotlib, Seaborn, Plotly, Power BI

Process: Power Point, Power Apps, Power Automate, Sharepoint

IDE: Jupyter, Pycharm, VSCode

PROFESSIONAL EXPERIENCE

Sustainalytics, Morningstar

Associate Manager

Mumbai, India
Oct 2022 – Sep 2023

- 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.
- 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.
- Designed and implemented intuitive dashboards to monitor Key Performance Indicators (KPIs), providing stakeholders with actionable insights into project progress and performance.
- 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

Machine Learning Engineer

Mumbai, India
Jan 2020 – Oct 2022

- Leveraged artificial intelligence and machine learning algorithms for standalone products and enhance 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%
- 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

Mechatronics Engineer

Mumbai, India
April 2019 – November 2019

- Lead a team of 5 developers for Outlier Capsule Detection Machine to serve purpose of segregating capsules according to batch color. It was able to segregate 10k capsules per 10 minutes
- Designed computer vision system for vehicle Speed Detection using surveillance cameras
- Developed training algorithm to identify patterns in subsequent data.

PROJECTS

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

- After the COVID-19 pandemic Its essential to follow protocols to avoid spreading of virus. One of which is to enforce use of face mask in work environment. This model based on retinanet can predict whether person is wearing the mask or not with accuracy of 95%.

[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%

[Diamond Price Estimator](#) [Pandas, Numpy, SK-learn, XGBoost]

- Build a model which generates estimation on diamond pricing based on its size, weight, cut, dimensions, etc.

ACCOMPLISHMENTS

- IP Creation Award, Awards for Excellence, Award for Patent Filing, Grant and Paper Publication. (Patent Application No - IN 202121013778)
- 1st Prize in Data science hackathon organized by Greyatom. Problem given was to create insurance claim predictor for travel insurance company.
- On The Spot Award (08/2021) for contribution towards TCS Research and Innovation.
- Cleared TCS Digital Capability Assessment

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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