

DNYANDEEP CHAVAN

Yavatmal, Maharashtra

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Education

IIT Kharagpur

Integrated Master of Science in Exploration Geophysics **CGPA- 8.51**

Dec. 2020 – Present

Kharagpur, West Bengal

Experience

TATA AIG General Insurance Company Limited

Received an Offer to join the Data Science Division for the upcoming summers(2024) during the On-campus Internship Drive Mumbai

Incoming

Dobin Pte Ltd

Data Science Intern

Jun 2023 – Aug 2023

Singapore

- Developed a **POC** to extract entities from transaction descriptions and built a chatbot using **Langchain, Streamlit & GPT-3.5**
- Automated the information extraction of targeted entities from Google Search results using **Selenium WebDriver & RegEx**
- Achieved **94%** accuracy utilizing transfer-learning with **fine-tuned DistilBERT** model in customer segmentation on **14** categories

Reliance Jio Infocomm Limited

Computer Vision Intern

May 2023 – Jun 2023

Hyderabad

- Implemented **ResNet50** model on custom dataset to classify cricket pitch & non-pitch frames from a video with **98%** val accuracy
- Utilized **Label-Studio** to annotate images with **8** classes, trained a **YOLOv8** model for object detection with mAP50 of **72%**
- Explored zero/one-shot object detection models like **Grounded-SAM** and **OWL-ViT** for prompt-based object recognition

Indian Institute of Management (IIM) Ranchi

NLP Research Intern | **Project Mentor: Prof. Pooja Sengupta**

Dec 2022 – Apr 2023

Ranchi

- Leveraged **BeautifulSoup & NLTK** library to extract, analyze & preprocess **13k** reviews from TrustPilot for sentiment analysis
- Applied **LDA & BERTopic** for modeling 6 distinct topics, yielding valuable insights on customer preferences & pricing strategies
- Discovered **4** main attributes Special services, Room features, Convenient, and Hotel design which attracted guests to such hotels

Rhizobee Innovations Pvt. Ltd.

Computer Vision Research Intern

Dec 2022 – Jan 2023

Delhi

- Conducted in-depth research on **SOTA Virtual TryOn** models (Flow-Style, HR-VITON) & implemented them using PyTorch
- Accomplished realistic looking try-on image generation on **768x1024** resolution with **HR-VITON** and built a **GUI** for users
- Utilized various frameworks to generate the **garment human parsing** & keypoints viz. Detectron2 DensePose, OpenPose, U-Net

Projects

EXL EQ Case Study - PM2.5 Prediction

May 2023

- Performed feature selection by **corr heatmap**, handled missing values with ffill/bfill, exponential smoothening to preserve trends
- Implemented **LSTM** model with LeakyReLU activation & Dropout layers to handle overfitting with r2 score **0.82** on validation set

Anomaly Detection with Auto-Encoders (Self Project)

Feb 2023

- Analysed and performed EDA on the credit card fraud dataset, visualized the clusters with a t-SNE plot to get insights on the data
- Implemented an **Auto-Encoder** model to learn only non-fraud transactions representation which is later used for reconstructions
- Achieved **98.7%** accuracy with ensemble voting classifier using KNN, SVC, DTs, GaussianNB, RF, XGBoost, and LightGBM

Technical Skills

Programming Languages & OS: Python, C, C++, SQL, HTML/CSS, JavaScript, Windows, Linux

Libraries & Frameworks: NumPy, Pandas, Matplotlib, TensorFlow, NLTK, LangChain, OpenAI, Open-CV, HuggingFace

Tools/Software: MATLAB, VS Code, MS Office, Adobe Suite, Figma, Notion, Jira, Google Colab, Jupyter Notebook, GitHub

Coursework Information

Programming & Data Structures | Probability & Statistics | Economics | Natural Language Processing | Transform Calculus | Applied Computational Methods | Geophysical Signal Processing | Machine Learning Specialization* | Deep Learning Specialization* [*Coursera]

Position Of Responsibility

Governor | Technology Filmmaking and Photography Society, IIT Kharagpur

Jul 2022 - Apr 2023

- Co-headed & managed a team of 45+ sophomores for smooth operation of society & coordinated in competitions with 600+ entries
- Responsible for managing the society's finances, an annual budget of **INR 2.4** lac to conduct year-long activities and events
- Handled social media pages, and was responsible for a **32%** YoY increase in content interactions & **13%** increase in the followers
- Organized workshops for freshers on History of Cinema, Direction, Cinematography, Photography, Script-Writing & Editing

Extracurricular

- Part of **Gold** winning Inter-IIT Contingent in filmmaking category in the Inter-IIT Cultural Meet 5.0, 2023 hosted by IIT Madras
- Served as a cadet at National Cadet Corps (NCC) under the training of **1 Bengal EME Coy NCC, IIT Kharagpur**
- Mentored **five** freshers in their academic as well as non-academic activities at **Student Welfare Group, IIT Kharagpur**