Ankan Deria

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Profile

Final-year graduate with a passion for machine learning and data science, bringing a strong foundation in programming languages and ML/DL frameworks such as scikit-learn, PyTorch, Keras, and TensorFlow. Proficient in statistics, data science, image recognition, and NLP, with a track record of successful projects and courses. Seeking to leverage my analytical thinking, quick learning, and teamwork skills to solve real-world problems as an ML engineer in a dynamic environment.

Education

Government College of Engineering and Leather Technology **Jul 2020 – Present**
B Tech, Computer Science and Engineering, Kolkata, India, CGPA- 9.34

Chandrakona Road Saradamoyee High School **Mar 2018 – Mar 2020**
12th, Science(WBCHSE Board), West Bengal, India, Percentage- 94

Courses / Certifications

- Time Series Analysis and Forecasting using Python, Udemy
- Artificial Neural Networks (ANN) with Keras in Python and R, Udemy
- Machine Learning and Artificial Intelligence, YBI Foundation

Work / Internships

IIT Patna **Jan 2024– Feb 2024**
Research Intern in Finance Lab *Remote*

- **Multi-task Model:** Developed a multi-task model for sentiment and emotion classification of user comments on financial products, incorporating generative AI techniques to identify the cause behind each comment. (paper submitted to ICDAR 2024)
  Authors: Sarmistha Das, **Ankan Deria**, Snehashish Dey, Harsha Vardhan Dasari, Sriparna Saha and Alka Maurya

Jio Institute **July 2023– Oct 2023**
Research Intern in Computer Vision Medical Imaging Lab *Navi Mumbai, Maharashtra*

- **Medical Report Generation Model:** Developed a cutting-edge memory efficiency and high performance medical report generation model. Paper accepted at CVPR Workshop 2024
  Authors: Ankan Deria, Komal Kumar, Snehashis Chakraborty, Dwarikanath Mahapatra, Sudipta Roy
- **Medical Image Segmentation:** Build a Generalized Multi-Modal Multi-Organ Network for Precise Segmentation of Medical Images. Here, we incorporate attention gates via skip connections between each encoding and decoding block and robust encoding blocks that help the model concentrate on specific regions of interest. (paper submitted to ECCV 2024)
  Authors: Snehashis Chakraborty, Komal Kumar, Abhijit Das, **Ankan Deria**, Sudipta Roy

Calcutta University **Mar 2023– Jun 2023**
Research Intern in Data Science Lab *Kolkata, West Bengal*

- **Modify Character BERT structure:** Modify the architecture to boost accuracy in the URL Classification Dataset. Applied ML and DL techniques for URL classification, conducting a comprehensive comparison of model accuracy.
- **Cyrillic URL Classification:** Developed an innovative AI model for classifying Cyrillic URLs, addressing a novel cybersecurity threat. (paper submitted to 7th ACM COMPASS Conference)
  Authors: Mainak Sen, **Ankan Deria**, Soumitra Chatterjee, Snehasish Dey, Debayan Ganguly, Amlan Chakrabarti

Omdena **Dec 2022– Aug 2023**
Chapter Lead *Remote*

- **Text Summarization Tool:** Built a text summarization tool to combat information overload by leading the entire team and successfully developing a sequential language model for text summarization, utilizing advanced transformer-based models like T5 and GPT to boost our text processing abilities.
- **Hateful and Offensive Language Detection:** Developed data pipelines to ingest, process, and clean data in preparation for machine learning applications. Improved models' accuracy through the optimization of feature engineering, hyperparameter tuning, and model selection techniques. Worked with approximately 2 lakh text data.

- **Job Recommendation System:** Developed a job recommendation system that considers user skills, suggests necessary skills for specific job roles, and provides curated YouTube resources for acquiring those skills.

Amazon **Jul 2022– Jul 2022**
Student Program *Remote*

- Selected in Amazon ML Summer School 2022 Program.
- Learning Machine Learning and Deep Learning from Amazon Scientist - Supervised Learning, Unsupervised Learning, Deep Neural Networks, Dimensionality Reduction, Probabilistic Graphical Models, Sequential Learning, Causal Inference, Reinforcement Learning.

Capsulelabs **Sep 2022– Oct 2022**
Software Engineer Intern *Kolkata, West Bengal*

- Discussed with the client and design the e-commerce website and Make SRS document. Resource utilizations – Microsoft PowerPoint, Microsoft Word, Figma.

Hackathons Won

COMSYS Hackathon IIT Mandi | 20th **2023**
- Developed a predictive model for player price based on historical stats and implemented a text emotion classification solution.

Intra-College Coding Compition | First **2022**
- Secured the first position in five intra-college coding competitions hosted by Capsulelabs, demonstrating proficiency by successfully solving eight coding problems in each competition.

Notable Github Projects

Player Scores Prediction
- Developed a predictive model for player scores by analyzing key factors such as runs, wickets, and match statistics. Incorporated data from both home and abroad matches, considered opponent teams, and factored in pitch conditions to enhance accuracy.

Personal Portfolio Web App
- Created a personal web application utilizing HTML, CSS, and JavaScript, and successfully hosted it using Flask.

Image Cartoonification Web App
- Developed a Python-based model for converting images to cartoons and deployed it using Flask.

Achievements

- Selected in Amazon Summar School Competition, 2022
- Secure 69th rank in Amazon ML Challenge Competition, 2023
- Omdena Kolkata Chapter Lead
- Codechef 3 star coder
- Tech Event Handler at our college (GCELT)

Skills Summary

Languages: Python, LaTeX, C, Java, SQL
Frameworks and Tools: Scikit, NLTK, TensorFlow, Keras, Pytorch, Numpy, Pandas, Excel, Tableau
Platforms: Windows, GCP
Soft Skills: Public Speaking, Time Management, Concentrated, Goal Oriented, Self-Motivated