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Aryan Felix

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EDUCATION

SIKKIM MANIPAL INSTITUTE OF TECHNOLOGY

Bachelor of Technology - Computer Science and Engineering
July 2018 - Present | Sikkim, IN
CGPA - 9.3

EXPERIENCE

PRODIGAL AI | Machine Learning Intern

Oct 2021 – Present | Bangalore, IN

- Work on **Recommendation Engine** to identify defaulters and patterns for cloud service providing company ZeeQ.
- Analysis of functioning of **UniSwap V3 DeX** and the risk metrics in the **Compound** and **AAVE** protocols of **Decentralized Money Markets**.

CENTER FOR ARTIFICIAL INTELLIGENCE AND ROBOTICS, DRDO | Artificial Intelligence Research Intern

June 2021 – Oct 2021 | Bangalore, IN

- Research based work in the field of **Natural Language Processing**.
- Collaborate and study algorithms to implement strategies and research findings of big names in the field of NLP.
- Working with **SVM**s to predict relations in sentences using custom **Tree Kernels** with the help of **Python** and external libraries like **Sci-Kit Learn, NetworkX and Pandas**.
- Working with **RNN/LSTM**s to create an attention mechanism model for relation extraction combined with shortest path kernels.

RECENT PROJECTS

SHORTEST PATH DEPENDENCY KERNEL FOR RELATION EXTRACTION | Sci-Kit Learn, NetworkX, Pandas

Oct 2021 | Github

- An Implementation of "**Shortest Path Dependency Kernel for Relation Extraction**" by **R. Bunescu and R. Mooney**.
- For entries with only two entities, on changing the representation of features, the model generated a better F1 Score of **58.2** as compared to the F1 of the original method of **53.6**.
- F1 Score for multiple entities was **21.4** which was way lower than the one for dual entities which was **49.6**.

FACE MASK DETECTION USING CNN | Keras, OpenCV, PIL

July 2021 | Github

- A Face Mask Detection tool that detects whether the user is wearing a Mask and also if the mask is work correctly.
- Model reported a **Validation Accuracy of 94%** and a **Training Loss of 5%**.

BRAIN TUMOR SEGMENTATION | Keras, TensorFlow

April 2021 | Github

- A Deep Learning model to detect and segment brain tumors from MRIs using CNNs by extracting information from feature matrices between convolutional layers.
- Model reported a **Validation Accuracy of 91%** and a **Training Loss of 6%**.

SKILLS

Languages
Python • C/C++
Libraries
Keras • SciKit Learn • OpenCV
TensorFlow • NumPy • Pandas
Frontend
HTML • CSS • Bootstrap
Backend
Node.JS • Express.JS
Frameworks
React.JS
Database
MongoDB • MySQL
Tools
Git • GitHub • Heroku • VS Code
Sublime • Jupyter • Google Colab

ACHIEVEMENTS

2021 | Job-A-Thon: Analytics Vidhya
• Model Rank 103 Among 7000+ Data Scientists
2020 | SmartHacks
• 1st Position
• IIT Kanpur
2020 | Kalam Dhrishti 2.0
• 1st Position
• SMIT
2020 | Tech Adristha Hackathon
• 1st Position
• SMIT

COURSEWORK

Data Science
Machine Learning
Deep Learning
Full Stack Web Development
Python 3

POSITIONS OF RESPONSIBILITIES

General Secretary
• Student Council
President
• Inquizitive!
• Quizzing Club
Senior Member
• Open Source Club
• Technical Club
Senior Member
• Innovision
• Technical Club