ODULAPALLI HITESH

+91 9490001414 odulapallihitesh369@gmail.com linkedin.com/in/odulapalli-hitesh/ github.com/odulapalli1414

Profile

Data Science Intern with a BTech in Computer Science from Amrita Vishwa Vidyapeetham, skilled in building and fine-tuning machine learning models using Python. Proficient in SQL, Python and Java with strong expertise in data structures, algorithms, and object-oriented programming.

Education

Amrita Vishwa Vidyapeetham **2020 – 2024**
Bachelor of Technology in Computer Science, ***CGPA : 8.48*** *Amritapuri, Kerala, India*

FIITJEE Junior College **2018 – 2020**
12th Telangana State Board Of Intermediate Education, ***Percentage : 92.6%*** *Hyderabad, Telangana, India*

Sri Chaitanya Techno School **2017 – 2018**
10th AP State Board Of Secondary Education, ***GPA : 10*** *Anantapur, Andhra Pradesh, India*

Experience

Data Science Intern **July 2024 – Aug 2024**
CODTECH IT SOLUTIONS *Remote*

- **Predictive Modeling With Classification on Credit Card Fraud Detection**
  - **Successfully** trained and evaluated multiple machine learning algorithms for credit card fraud detection, achieving 98% accuracy with Logistic Regression, 99% with Naive Bayes, and 99% with Decision Tree Classifier.
  - **Implemented** SMOTE (Synthetic Minority Over-sampling Technique) to balance a highly imbalanced dataset, ensuring robust model performance in detecting fraudulent transactions.
  - **Utilized** GridSearchCV for hyperparameter tuning, significantly enhancing the performance of the Decision Tree Classifier and visualizing the decision trees formed.
- **IPL 2024 - RCB vs SRH Match Insights**
  - **Analyzed** IPL match data using pandas and seaborn, visualizing runs distribution per over, top scores, bowling performance, and dismissal types. Created insightful visualizations like bar plots and pie charts.
  - **Calculated** cumulative runs and wickets per over for both teams, and analyzed match phases (Powerplay, Middle, Death) using Python scripts. Used pandas to aggregate data and seaborn for visual representation.
  - **Automated** IPL match data from HTML files for statistical analysis, identifying batting partnerships and analyzing performance phases. Skilled in data manipulation, scripting, and visualization.

AI and Cloud Intern **Feb 2024 – Mar 2024**
EDUNET FOUNDATION *Remote*

- **Sentiment Analysis of Textual Content**
  - **Developed** an AI model for emotion detection in text using Logistic Regression, Support Vector Machine, and Multinomial Naive Bayes, achieving up to 89% accuracy on the IMDb movie reviews dataset.
  - **Implemented** TF-IDF and Bag-of-Words for text formatting, with TF-IDF outperforming Bag-of-Words.
  - **Deployed** the model on IBM Cloud, enabling scalable and real-time emotion detection.

Projects

Graphical Convolutional Neural Networks for Brain Tumor Detection | *GCN, CNN* **2023 Nov – 2024 Apr**

- **Analyzed** 3264 MRI brain scan images, utilizing 2870 for training and 394 for testing, to classify Glioma, Meningioma, Pituitary, and No Tumors.
- **Developed** GCN-ResNet-18, GCN-VGG-16 and GCN-DenseNet-121 models achieving 75%, 70% , and 61% accuracies.
- **Evaluated** performance using classification reports, confusion matrix and ROC curves verified robustness with feature visualizations through scatterplots.

Skills

Programming Languages: Python, Java, SQL, HTML, CSS
Developer Tools: Git, GitHub, VS Code, Eclipse, Atom
Frameworks: PyTorch, Flask
Libraries: Scikit-learn, Numpy, Pandas, NLTK
Soft Skills: Time Management, Adaptability, Flexibility, Team Work, Problem-solving
Extra-Curricular Skills: Chess, Badminton

Certifications

- **Generative AI Professional** | *Oracle*, July 2024
- **Introduction to SQL** | *Simplilearn*, Mar 2024
- **Introduction to Git and GitHub** | *Coursera*, Oct 2023
- **Data Structures, Algorithms in Java** | *Udemy*, Aug 2024

Publications

An Integrated Study on Convolutional Neural Networks and Graph Neural Networks for Brain Tumor Classification from MRI Images *IC3 2024* **2024 Aug**

Community Outreach Programs

Project Munimentum | *Amrita Vishwa Vidyapeetham* **2022 Oct – 2022 Dec**

- As part of the SSR(Student Social Responsibility) we had taken an initiative to reach out the schools nearby the locality and address the importance of the Digital Privacy, how to defend, protect themselves from a cyber crime.