ODULAPALLI HITESH

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Profile

Java and 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

Java Intern   **Nov 2024 − Present**
Zensar Technologies   *Bengaluru*

- **Maintained and optimized** a Generative AI application using platforms such as Llama3, Gemini, and Bedrock, ensuring platform stability and performance.
- **Fixed bugs and addressed** issues identified by SonarQube, enhancing code quality and application reliability.
- **Utilized** Java, Spring Boot, Git, GitHub, and Azure DevOps to develop, collaborate, and track project progress.

Data Science Intern   **July 2024 − Aug 2024**
Codtech IT Solutions   *Remote*

- **Achieved** 98%-99% accuracy in machine learning models using Logistic Regression, Naive Bayes, and Decision Tree Classifiers.
- **Balanced** a highly imbalanced dataset with SMOTE, improving model performance by 4%
- **Conducted** 50+ iterations of hyperparameter tuning with GridSearchCV to enhance algorithm efficiency.
- **Processed and analyzed** 100,000+ data points using pandas for advanced statistical insights.
- **Automated** 10+ data aggregation processes from HTML files, reducing manual effort by 70%.
- **Created** 8+ visualizations (bar plots, pie charts) with seaborn and matplotlib for actionable insights.

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.

Admission Management System | *Java, Swing, AWT, PostgreSql*   **2023 Jul − 2023 Oct**

- **Built** a desktop application using Java, Swing, and AWT to manage student admissions efficiently.
- **Implemented** PostgreSQL for database operations, utilizing JDBC for seamless connectivity and CRUD functionality.
- **Designed** a responsive GUI for features like student registration, course assignment, and admission tracking.

Skills

Programming Languages: Python, Java, SQL, HTML, CSS
Developer Tools: Git, GitHub, VS Code, Eclipse, Atom
Frameworks: PyTorch, Flask, Spring Boot
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   **2024 Aug**
for Brain Tumor Classification from MRI Images *IC3 2024*

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.