AUVIK DAS

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EDUCATION

Bachelor of Technology in Computer Science

Meghnad Saha Institute of Technology, Kolkata, West Bengal (Sep 2022 – Present)

SKILLS

- **Programming Languages:** Java, Python, C
- **Web Technologies:** HTML, CSS, JavaScript
- **Frameworks:** React, Tailwind CSS, Spring Boot
- **Libraries & Tools:** Pandas, NumPy, PyAutoGUI, Pygame, Scikit-learn, NLTK, OpenCV, MediaPipe
- **Databases:** MySQL, MongoDB
- **Tools & IDEs:** VS Code, PyCharm, IntelliJ IDEA, GitHub Desktop, Postman, Figma, ChatGPT

PROJECTS

Flappy Bird – Python Arcade Game

Game Technology: Python, Pygame | Integrated Development Environment: PyCharm

- Designed a side-scrolling arcade game featuring over 20 obstacle variations, an engaging scoring system, and responsive player controls.
- Implemented a physics engine featuring gravity set at 0.25 and lift at –6, along with accurate collision detection to ensure seamless gameplay.
- Enhanced rendering to sustain 60 FPS, decreasing frame drops by approximately 30% in comparison to the original build.

Heart Disease Predictor | ML Model for Medical Diagnosis

Technologies: Python, Pandas, Scikit-learn, TF-IDF | Environment: Jupyter / PyCharm

- Built a binary classification model (Logistic Regression) to assess the risk of heart disease based on clinical health metrics.
- Processed data by addressing missing values, standardizing numeric features, and encoding categorical variables.
- Utilized TF-IDF for feature extraction and accomplished:
    - Accuracy: 87%
    - Precision: 85%
    - Recall: 83%
    - F1-Score: 84%

AI Resume Analyzer (Machine Learning Project)

Tools: Python, Scikit-learn, Pandas, NLTK, TF-IDF

- Built an ML-based resume classification system using **TF-IDF** and **Scikit-Learn**, achieving **92% accuracy** on a dataset of **4,900+ resumes**.
- Preprocessed **100%** of raw resume text using NLTK (tokenization, stop-word removal, lemmatization).
- Engineered a multi-class classifier to identify **25+ job categories** such as Data Science, Web Development, HR, etc.
- Reduced model prediction time to **<150 ms per resume** with optimized feature extraction.
- Deployed a command-line prediction tool capable of analyzing **50+ resumes/min** for real-time screening.

CERTIFICATES

SAP Hackathon – Participant Certificate

- Selected among 100+ students to participate in a college-level hackathon organized by SAP; collaborated in a team of 4 to develop a working prototype within 24 hours, solving a real-world problem by innovation