DISHA SHOW MONDAL

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EDUCATION

VIT Bhopal University — Bhopal, India
Pursuing Bachelor of Computer Science and Engineering with specialization in Health informatics — *06-2022 – 2026 expected*
CGPA: 8.66

SKILLS

Technical Skills: Java, Python, MySQL

Certifications: IBM Technology Cyber Security , IBM Technology DevOps

Course Work : OOPS,RDBMS, CN

Web Programming : HTML , CSS , JavaScript

PROJECTS

Autism Detection using ML | *Python, Scikit-learn, Pandas*

- Developed a robust machine learning model for early autism detection, leveraging classification algorithms to achieve over 85% accuracy, enhancing diagnostic efficiency.
- Engineered data preprocessing pipelines using Pandas and NumPy, optimizing feature selection and reducing data noise, which improved model performance by 15%.
- Visualized key diagnostic insights through comprehensive data analysis and graphical representations

Medical Insurance Price Prediction using ML | *Python, Scikit-learn, Matplotlib*

- Designed and deployed a regression model to predict medical insurance costs with high precision, reducing prediction errors by 20% through advanced algorithm optimization.
- Conducted extensive exploratory data analysis (EDA) to identify key factors influencing insurance pricing, utilizing correlation matrices and feature importance rankings.
- Automated data visualization using Matplotlib and Seaborn to present predictive trends, supporting data-driven decision-making for insurance stakeholders.

Rice Leaf Disease Detection using GAN | *Python ,CycleGAN, YOLOv8*

- Achieved 99% accuracy in multi-class disease classification using CNNs with transfer learning (VGG16, EfficientNet).
- Enhanced dataset diversity through CycleGAN-based synthetic image generation and filtered outliers using DBSCAN clustering.
- Integrated YOLOv8 for real-time disease localization and autoencoder-based anomaly detection to identify unseen symptoms.

EXTRA-CURRICULAR ACTIVITIES

- Directed volunteer teams to manage event operations for the Bengali Club, optimizing resource allocation and reducing setup
- time by 25%, resulting in a 50% increase in overall event efficiency.
- As a member of the IoT Club, I worked on hands-on projects involving microcontrollers, sensors, and cloud platforms like ThingSpeak. I gained experience in building smart systems using NodeMCU and Arduino, integrating real-time data acquisition and automation , participated in workshops on embedded systems, IoT protocols, and wireless communication.
- As a member of the Fitness Club, I actively participated in regular training sessions focused on strength, endurance, and overall well-being. Engaged in group activities that promote teamwork, discipline, and a healthy lifestyle. management skills

ACHIEVEMENTS

- Solved 1200 DSA questions on Leetcode
- Enhanced problem solving skills by solving 3000 coding problems on platforms like LeetCode, Codechef

HOBBIES

- Open-source contributions , Public Speaking , Blogging