Tohin Majumder

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EDUCATION

- **Bachelor of Technology in Computer Science and Engineering(AI and ML)** *2022-26*
  Sharda University,Greater Noida

PERSONAL PROJECTS

- **Dashboard**

  A web-based dashboard for managing products, employees, customers, and orders.
  – Built interactive dashboard with data visualization (charts/graphs) to track 500+ product orders monthly.
  – Engineered a comprehensive search and sorting system alongside automated report generation features, leading to a decrease in data handling errors by 25% and fostering better decision-making through accurate reporting.
  – Technology Used: PHP, HTML, CSS, JavaScript, Bootstrap.

- **Disease Detection in Crops**

  A machine learning model for detecting crop diseases and suggesting pesticides.
  – Achieved 92% accuracy using CNN with TensorFlow on dataset of 10,000+ crop images
  – Reduced false positives by 18% through OpenCV image preprocessing
  – Integrated pesticide recommendation system using decision trees

- **Handwritten Letter Recognition System**

  A deep learning model that recognizes handwritten letters.
  – Developed neural network model achieving 95% accuracy on synthetic dataset using TensorFlow/Keras.
  – Engineered data augmentation pipeline with Gaussian noise injection ($\sigma = 0.1$), increasing training samples by 2x.
  – Implemented dropout regularization (30%) to prevent overfitting in 3-layer DNN architecture.
  – Optimized hyperparameters through 500-epoch training with Adam optimizer (learning rate=0.001).
  – Designed synthetic data generator creating 12 variations per character (A-D) for robust pattern learning.
  – Deployed model with serialization/deserialization capabilities using HDF5 format.

- **Portfolio Website Template**

  A responsive portfolio website template for developers and designers.
  – Designed and developed a customizable portfolio template.
  – Ensured mobile responsiveness with modern UI/UX design.
  – Technology Used: HTML, CSS.

EXPERIENCE

- **Full Stack Web Developer Intern** *May - July 2024*
  StudyTable, Tripura Remote
  – Developed full-stack dashboard managing 500+ product orders using PHP/MySQL, reducing data errors by 25%
  – Implemented CRUD operations with search/sort features, improving user productivity by 30%
  – Created data visualization charts using JavaScript for real-time business insights

TECHNICAL SKILLS AND INTERESTS

Languages: C/C++, Python, Java, JavaScript, HTML, CSS, PHP,React
Libraries : C++ STL, Python Libraries, Bootstrap
Web Development Tools: VS Code, Git, GitHub, XAMPP, phpMyAdmin
Frameworks: None (Prefers using HTML and CSS without JavaScript frameworks where possible)
Cloud/Databases: MySQL, Firebase
Relevant Coursework: Data Structures & Algorithms, Operating Systems, Io, Object-Oriented Programming, Database Management Systems, Software Engineering, Software Testing, Artificial Intelligence, Machine Learning
Areas of Interest: Web Development, Integrating IoT with Machine Learning, Cloud Computing, Cybersecurity
Soft Skills: Problem Solving, Self-Learning, Presentation, Adaptability, Teamwork

SCHOLARSHIPS AND AWARDS

- **Reliance Foundation Undergraduate Scholarship Recipient**Reliance Foundation *2022-2025*
  – Selected as one of 5,000 meritorious undergraduate students across India for a merit-cum-means scholarship, receiving up to INR 2 lakhs over the duration of the degree program.

- **Northeast State Scholarship Awardee**Northeast State Community College *2023-2026*
  – Awarded a scholarship based on academic excellence and financial need, contributing significantly towards college expenses.