Achinta Hazra

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I am a Computer Science undergraduate with hands-on experience in Machine Learning, Full-Stack Web Development, and Generative AI. Skilled in developing, deploying scalable systems integrating AI models with web technologies using React, Node.js, Docker. I have a strong foundation in DSA, OOP, DBMS, and System Design, enabling me to tackle complex problems and deliver impactful Solutions.

SKILLS

Programming Language: Python, JavaScript, TypeScript, Java, C++
Machine Learning: Scikit-learn, NumPy, Pandas, Matplotlib, Data Preprocessing, Model Evaluation, Feature Engineering
Deep Learning: TensorFlow, PyTorch, Keras, Neural Networks, CNNs, Model Optimization
Generative AI: LLMs, Fine-Tuning, RAG Systems, Prompt Engineering
Web Technology: React.js, Next.js, HTML5, CSS3, Tailwind CSS, Redux, Node.js, Express.js, REST APIs, JWT/OAuth, WebSocket
Databases: MongoDB, MySQL, PostgreSQL
Cloud & DevOps: Docker, AWS (S3, EC2), CI/CD, GitHub Actions, N8N

PROJECTS

AI-Powered Plant Disease Detection ↗
Built a ResNet50-based deep learning model for multi-class plant disease classification
- Model achieved **97.48% test accuracy** on **4,122 images** across **14 disease classes**
- Applied transfer learning, fine-tuning, and data augmentation to improve performance

Causal Inference Engine for Market Attribution ↗
Developed a Causal Inference Engine for market attribution using Propensity Score Matching (PSM) and a T-Learner for Uplift Modelling
- The PSM Estimated Effect (0.004176) successfully reduced the error by over50% compared to the Naive Effect (0.001172), closely approximating the True Effect (0.006632).
- Final result provides decision support for optimal resource allocation using an uplift threshold of >0.01

DevCollab — Full-Stack Collaborative Platform ↗
Built a real-time collaborative development platform using Next.js, Node.js, 2FA, and MongoDB
- Integrated code editing, chat, and video conferencing features Secured with JWT/OAuth, tree file structure, code compiler

Customer Churn & Heart Disease Prediction Models ↗
Built Random Forest and Logistic Regression models for churn prediction and heart disease prediction
- Churn prediction model achieved 80.34% accuracy with 19 features
- Heart disease prediction model achieved 87% accuracy with 16 features

E-Commerce Platform with Optimized Rendering ↗
Built a high-performance platform using Next.js 14, TypeScript, and MongoDB .
- Implemented SSG, ISR, and SSR along with authentication and admi n dashboards, resulting in 40% faster page loads and improved SEO performance

EDUCATION

Bachelor of Technology in Computer Science
Durgapur Institute of Advanced Technology and Management
GPA - 8.2 / 10

INTERNSHIP

June 2025 – July 2025
IEEE CIS Kolkata Chapter Summer Internship 2025
Development of Agent AI for Cybersecurity Internship.

CERTIFICATES

- Oracle Cloud Infrastructure 2025 Certified Generative AI Professional, Oracle, 2025
- Development of Agent AI for Cybersecurity Internship, IEEE CIS Kolkata, 2024
- Machine Learning using Python, Cadeasy,2024
- Python for Everybody, Coursera, 2023
- Web Development Bootcamp, Teachnook,2023