PARTHA DEY

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OBJECTIVE

Self-motivated AI Developer with foundational experience in Python, PyTorch, and AWS. Skilled in developing machine learning models, NLP techniques, and working with generative AI concepts like GANs and GPT. Eager to contribute to real-world AI solutions with a strong grasp of data structures, cloud platforms, and collaborative agile practices.

WORK EXPERIENCE

Brainwave Matrix Solutions **Mar 2025 - May 2025**
Data Science & Analytics Intern *Noida, Uttar Pradesh, India*
- Conducted secondary research and data validation using Python and Excel for ETL pipeline testing.
- Developed interactive Power BI dashboards to visualize operational KPIs for business stakeholders.
- Automated data preprocessing workflows using Pandas and NumPy to increase efficiency by 30%.
- Worked in an Agile environment, participating in sprint planning and code reviews.

WebGuru Infosystems Pvt. Ltd. **Nov 2024 - Feb 2025**
AWS Solution Architect Internship *Kolkata, West Bengal, India*
- Migrated data from on-premise systems to AWS S3 with focus on accuracy and data compliance.
- Deployed AI-based solutions using AWS EC2, Lambda, and Elastic Beanstalk.
- Conducted unit tests on cloud deployments to validate scalability and architecture standards.

PROJECTS

Research in Heart Disease Prediction Using AI (Computer Vision) **Aug 2024 - Present**
https://github.com/Parthadee/AI-in-Healthcare-of-Heart-Disease.git *Kolkata, West Bengal, India*
- Built predictive models using Scikit-learn and PyTorch with 89.4% accuracy.
- Explored deep learning classification techniques using PyTorch for computer vision-based health analysis.
- Used Python (Pandas, NumPy, Matplotlib, Seaborn) for feature engineering and model visualization.
- Validated performance using cross-validation, ROC-AUC metrics, and model explainability.

Diwali Sales Prediction **Mar 2025 - May 2025**
https://github.com/Parthadee/Diwali-Sales-Analysis-Prediction.git *Noida, Uttar Pradesh, India*
- Designed ETL pipeline using Python and SQL to support data-driven marketing strategy.
- Performed automated validation and testing to ensure dashboard data integrity in Power BI.
- Provided actionable insights through predictive modeling to support business growth.

SKILLS

- **Programming & Frameworks**: Python, PyTorch, TensorFlow, Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, NLTK
- **Cloud Platforms**: AWS(EC2, S3, Lambda, Elastic Beanstalk), Familiar with GCP, Azure basics
- **AI & ML Skills**: Machine Learning, NLP, GPT, Generative AI models
- **Tools & Methodologies**: SQL, PowerBI, Data Visualization, Advance Excel, VBA, ETL Pipelines, Agile, Jupyter Notebook
- **Soft Skills**: Leadership, Team Collaboration, Communication Skils, Problem-solving, Critical Thinking

EDUCATION

Brainware University **Aug 2023 - Present**
Master of Computer Application *Kolkata, West Bengal, India*
- **GPA:** 8.32/10

Narula Institute of Technology **Aug 2018 - Jul 2021**
Bachelor of Technology, Civil Engineering *Kolkata, West Bengal, India*
- **GPA:** 7.64/10

Narula Institute of Technology **Sep 2015 - Sep 2018**
Diploma in Engineering, Civil Engineering *Kolkata, West Bengal, India*
- **GPA:** 7.0/10

CERTIFICATIONS

- **Generative AI**: Mastered generative AI techniques for creating content, optimizing models, and applying machine learning in real-world applications.
  https://www.cloudskillsboost.google/public_profiles/5e113529-17fd-47fb-b33c-561caaf419c5/badges/15504675?utm_medium=social&utm_source=linkedin&utm_campaign=ql-social-share
- **AWS Solutions Architecture Certificate**: Gained proficiency in cloud architecture, AWS services, and scalable solutions design.
  Link: https://drive.google.com/file/d/1Dn2-1euqg3r7P6bk-cplDIK9Bswo989z/view?usp=drive_link