Pallab Saha

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PROFESSIONAL SUMMARY

Analytically-driven AI/ML professional with 3+ years of experience leading data science initiatives and developing intelligent systems using Python, machine learning, and cloud technologies. Specialized in statistical analysis, predictive modeling, and end-to-end data pipeline development for enterprise AI platforms. Proven track record of leading cross-functional teams to deliver actionable insights from complex datasets and optimize ML model performance. Academically trained in Robotics and Mobility Systems from IIT Jodhpur, with industry-recognized certifications in Azure AI and Google Cloud ML Engineering. Passionate about leveraging advanced analytics and machine learning to solve real-world business challenges and drive data-driven decision making.

WORK EXPERIENCE

Sr. Developer at **Cognizant Technology Solutions** *(Kolkata, WB, India)*　　`Feb 2022 - Present` `3+ years`

- Led a 5-member analytics team to develop comprehensive engagement and interaction reporting systems for enterprise AI platforms, implementing statistical analysis and machine learning models to extract actionable insights from user behavior data using Python, SQL, and Azure ML services.
- Designed and deployed end-to-end data pipelines for real-time conversation analytics, user sentiment analysis, and performance optimization of LLM-integrated systems, leveraging Azure OpenAI, TensorFlow, and cloud-based MLOps practices to drive data-driven decision making.
- Applied advanced analytics and predictive modeling techniques to optimize chatbot effectiveness, user satisfaction prediction, and workflow automation success rates, creating interactive data visualizations and automated reporting systems using Python (Matplotlib, Plotly) that improved business intelligence and model performance tracking.
- Developed robust backend systems for conversation logging, duplication filtering, and feedback analysis, implementing machine learning algorithms for continuous model enhancement and automated quality assurance processes.
- Collaborated cross-functionally to align AI/ML capabilities with business requirements, delivering scalable analytics solutions that enhanced user engagement metrics, system transparency, and data-driven insights for executive decision-making.

CERTIFICATIONS

- **AI-900 Azure AI Fundamentals** `Microsoft`
- **AI-102 Azure AI Engineer Associate** `Microsoft`
- **Cloud Professional Machine Learning Engineer** `Google`

EDUCATION

Master of Technology (M.Tech) Robotics And Mobility Systems(IDRP) `2022 - 2024`
Indian Institute Of Technology (IIT) *(Jodhpur, Rajasthan, India)*

Bachelor of Technology (B.Tech) Mechanical Engineering `2017 - 2021`
Dr. Sudhir Chandra Sur Degree Engineering College *(Kolkata, West Bengal India)* CGPA: 8.35/10

Senior Secondary (Class XII) `2016`
Indira Gandhi Memorial High School(CBSE board) *(Kolkata, West Bengal India)* Percentage: 62.40%

Secondary (Class X) `2014`
Julien Day School(CISCE board) *(Kolkata, West Bengal India)* Percentage: 85.40%

SKILLS

- **Languages & Frameworks:** Python, SQL, Git, Linux, Jupyter
- **Machine Learning & Deep Learning:** Scikit-learn, TensorFlow, Keras, PyTorch
- **Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, Seaborn, Plotly

- **Computer Vision & NLP:** Transformers, Azure Cognitive Services (Vision, OCR, Speech, Language), Azure Document Intelligence
- **Cloud & MLOps:** Azure AI, Azure ML Studio, Azure OpenAI, Azure Bot Framework, Azure CLI, GCP (Vertex AI, BigQuery ML), MLFlow
- **Tools & Platforms:** Docker, Postman, Power BI, Vertex AI Notebooks, GitHub