

# Pallab Saha

 pallabsongeet007@gmail.com |  (+91) 90622 51052 |  pallab-saha-git |  pallab-saha-p7s |  Kolkata, WB, India

## PROFESSIONAL SUMMARY

Analytically-driven AI/ML professional with 3 years 9 months 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 Y 9 M

- Led a 6-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.
- Led the end-to-end development and production deployment of the **reporting module** for a **RAG-based chatbot** supporting infrastructure IT issue resolution, delivering real-time dashboards to visualize engagement, resolution rates, and model performance.
- Designed data schema models and automated pipelines to aggregate and analyze conversation logs, user interactions, and feedback data using **Python**, **SQL**, and **Azure ML**, in coordination with a dedicated **AKS DevOps team**.
- Integrated **OpenAI GPT-4.1 APIs** for intelligent data summarization and **time-based trend prediction**, enabling proactive insights into chatbot usage and system performance over time.
- 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**
- AI-102 Azure AI Engineer Associate**
- Cloud Professional Machine Learning Engineer**

Microsoft

Microsoft

Google

## EDUCATION

### Master of Technology (M.Tech (Full-Time)) Robotics And Mobility Systems(IDRP) Indian Institute Of Technology (IIT) (Jodhpur, Rajasthan, India)

2022 - 2024

CGPA 5.93/10

### Bachelor of Technology (B.Tech) Mechanical Engineering Dr. Sudhir Chandra Sur Degree Engineering College (Kolkata, West Bengal India)

2017 - 2021

CGPA: 8.35/10

### Senior Secondary (Class XII) Indira Gandhi Memorial High School(CBSE board) (Kolkata, West Bengal India)

2016

Percentage: 62.40%

### Secondary (Class X) Julien Day School(CISCE board) (Kolkata, West Bengal India)

2014

Percentage: 85.40%

## SKILLS

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- **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