

Purnendu Das

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Summary

Data Science professional with 5.7 years of experience, specializing in Retail and Finance domains. My expertise lies in **Python, Data Science, GenAI, LLMOps, SQL & NoSQL Databases, Clouds such as GCP, AWS.**

Technical Skills

Programming : Python, SQL
Generative AI : LLMOps, LangChain, LangGraph, RAG, Vector Databases, GPT, Gemini, Vertex AI
Data Science : Pandas, Scikit-Learn, NLP, Machine Learning, Record Linkage, Plotly, Matplotlib, Power BI
Backend & Web : FastAPI, Flask, Django, REST APIs, Jinja, Bootstrap, HTML, CSS, JavaScript (Basic)
Cloud (AWS) : S3, EC2, Lambda, RDS, IAM, DynamoDB, OpenSearch, SageMaker, KMS, Step Functions, VPC
Cloud (GCP) : IAM, Cloud Storage, BigQuery, AlloyDB, Cloud Run, Cloud Functions, Pub/Sub, Cloud Build, Vertex AI
Tools & Practices : Git, JIRA, Agile, SDLC, Linux, Data Modeling, Testing, Excel

Awards & Achievements

EPAM Systems (Feb 2026): Received **Delivery Head Award** for excellence in **Generative AI innovation and delivery.**
PwC (Nov 2024 – Aug 2025): Received **9 awards** from Project Manager, Delivery Head, and Partner for outstanding contributions in GenAI innovation and delivery excellence.
Cognizant (Mar 2024): Achieved **5/5 annual performance rating (Top 1%)** across the organization.
Cognizant (Jan 2024): Honored with **"Best Newcomer Award 2023"** by AIA Leadership team.
Cognizant (Dec 2022 – Aug 2024): Received **7 awards** from leadership for consistent delivery and technical excellence.
TCS (Aug 2021): Won **4 internal hackathons**, demonstrating strong problem-solving and innovation skills.

Experiences

Senior GenAI Developer Aug 2025 – Present
EPAM Systems *Bangalore, Remote*

- Architecting an **enterprise-grade Hybrid RAG system** using AWS Bedrock, OpenSearch, and Lambda for a Tier-1 US finance client, enabling multimodal document intelligence.
- Orchestrating end-to-end **LLM-powered chat engine lifecycles**, ensuring sub-second latency and high system reliability at enterprise scale.
- Implemented advanced **PEFT and LoRA fine-tuning** on LLaMA and Gemma models to improve domain-specific accuracy in financial use cases.
- Acted as a **Technical Interviewer (A3-Level)**, evaluating 50+ candidates and contributing to hiring standards in GenAI engineering.
- Received **Delivery Head Award** for driving innovation and successful deployment of high-impact AI solutions.

GenAI Associate 2 Aug 2024 – Aug 2025
Price Waterhouse Coopers (PwC) (AC, US) *Bangalore, Hybrid*

- Architected **multi-agent microservices** for a GenAI healthcare platform on AWS, improving processing efficiency by 60%.
- Built **enterprise RAG pipelines** for a US finance client, enhancing retrieval accuracy by 40%.
- Developed an **LLM-powered risk intelligence system** with multi-agent mitigation, reducing assessment time by 70%.
- Optimized LLM workflows using **chain parallelism**, reducing execution time by 68% for high-traffic Q&A systems.
- Recognized with multiple leadership commendations for **AI innovation and cross-team impact.**

Data Scientist Sep 2022 – Aug 2024
Cognizant *Kolkata, West Bengal*

- Led **GenAI R&D initiatives** and productionized AI solutions on AWS with focus on scalability and performance.
- Designed **multi-LLM workflows** using LangChain, Azure OpenAI, and Gemini Pro for enterprise use cases.
- Built a **semantic search engine** using Pinecone and RAG, improving accuracy by 35% and reducing latency.
- Developed **LLM-based metadata linking systems** for enterprise data governance automation.
- Ensured **100% security compliance** using SAST/DAST tools (Checkmarx, Sonar, Black Duck).

- Received multiple awards including "Rising Star" for technical excellence and innovation.

Data Engineer

Mar 2021 – Sep 2022

Tata Consultancy Services

Kolkata, West Bengal

- Developed **scalable ETL pipelines** on GCP for enterprise data migration and analytics.
- Optimized workflows using **Airflow and Cloud Functions**, reducing costs by 40% and manual effort by 80%.
- Built **serverless validation systems** improving data integrity and reducing manual intervention.
- Integrated **BigQuery, Dataflow, and SQL** for high-throughput data processing pipelines.
- Implemented **CI/CD pipelines** using Docker, Jenkins, and Bitbucket for streamlined deployments.

Full Stack Web Developer (Django)

Aug 2020 – Feb 2021

Oneness Tech Solutions

Kolkata, Remote

- Developed a **predictive analytics web application** using Django and machine learning models.
- Built **REST APIs and dynamic UI** for seamless interaction between ML backend and frontend dashboards.
- Improved website performance and SEO, increasing **organic traffic by 65%**.
- Managed **end-to-end product lifecycle**, from database design to deployment.

Python Developer Intern

Apr 2019 – Jun 2019

CodeSpeedy Technology Pvt Ltd

Baharampur, India

- Developed a **real-time weather analytics application** using Python and REST APIs.
- Automated **certificate generation** using Python-based document processing.
- Built a **multi-threaded socket communication system** demonstrating networking fundamentals.
- Authored **technical content** simplifying complex programming concepts for developers.

Education

Government college of engineering and textile technology

Berhampore, West Bengal

B.tech, Computer science and engineering — 8.15 out of 10 CGPA

2016 - 2020