

## SOURAV ACHERJEE

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### Objective

Passionate and detail-oriented Computer Science Engineer with expertise in AI, Cloud, and Systems software development. Proficient in Python, Java, and Linux environments with a strong foundation in data structures, algorithms, and distributed systems. Eager to contribute to IBM as a Software Engineer by designing scalable, high-performance, and secure software solutions across AI, cloud, and systems domains.

### Technical Skills

- Programming Languages: Python, Java, C, Shell Scripting
- Core Concepts: Data Structures & Algorithms, Operating Systems, Object-Oriented Programming, DBMS, Computer Networks
- Frameworks & Tools: Linux, Git, Docker, Kubernetes, Streamlit, ReactJS, LlamaIndex, ChromaDB, REST API, DevOps (CI/CD)
- AI/ML Technologies: BERT, RAG, TensorFlow, PyTorch, Data Analytics, Machine Learning Models, Jupyter Notebooks
- Cloud & Virtualization: OpenStack, Red Hat OpenShift, Virtualization Management, Cloud Storage (AWS S3, Azure Blob, GCP)
- Soft Skills: Team Leadership, Analytical Thinking, Problem Solving, Communication

### Projects

Travel Buddy | TechTitans (Final Year Project, 2025)

- Led a team of four to develop an AI-powered personalized travel planner integrating weather, maps, and transport APIs.
- Designed backend in Python and frontend in ReactJS ensuring seamless real-time data flow.
- Deployed the application on cloud infrastructure using Docker and optimized API latency by 25%.

AI Content Engine (RAG-Based Document Analyzer)

- Developed a Retrieval-Augmented Generation (RAG) system to compare and analyze 10-K reports (Alphabet, Tesla, Uber).
- Built semantic search using LlamaIndex, ChromaDB, and BERT.
- Created a Streamlit chatbot interface for contextual document-based Q&A.

## Flight Delay Prediction | Tata Steel Vocational Training

- Implemented a machine learning pipeline for flight delay prediction using regression techniques.
- Conducted EDA, feature engineering, and performance optimization.
- Strengthened understanding of deployment workflows and model evaluation metrics.

## Education

Bachelor of Technology (B.Tech) – Computer Science and Engineering  
Techno International Newtown, Kolkata | Graduated: 2025

## Certifications

- Google Data Analytics Professional Certificate – Coursera
- Supervised Machine Learning: Regression and Classification – Coursera
- Crash Course on Python – Coursera
- Java Programming: Solving Problems with Software (with Honors) – Coursera

## Leadership & Achievements

- Team Lead, TechTitans – Final Year AI Project
- Completed Google Data Analytics Capstone with 100% score
- Recognized during Tata Steel Training for analytical excellence and initiative
- Secured 2nd position in an Inter-College Business Idea Competition (2022) for developing 'Homies', a website for local stays and PG accommodations