

# Pushkar Ghosh

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## EDUCATION

### University of Engineering and Management

Bachelor of Technology in Computer Science Engineering; **CGPA: 9.15**

Kolkata, West Bengal

Aug. 2022 – Present

### Garden High School

CISCE (12th) Science; **Percentage: 92%**

Kolkata, West Bengal

April 2021 – March 2022

### Garden High School

CISCE (10th) Science; **Percentage: 93.8%**

Kolkata, West Bengal

April 2019 – March 2020

## EXPERIENCE

### Coal India Limited

Project Intern, System Department

Kolkata, West Bengal

Dec. 2025 – Present

- Spearheaded the development of 'Coal Quality Prediction System', a Flask-based ML web app incorporating **16 predictive models** trained on **5,000+ records** to forecast Coal Grade and GCV, targeting a **15% improvement** in reporting accuracy.
- Engineered 'Policy Neural Engine', a local RAG-based chatbot using **Streamlit, LangChain, and Ollama (Phi-3.5)**; reduced retrieval time by **40%** by integrating hybrid OCR (Tesseract) to index **200+** legacy PDF pages.

### Mekhline Infotech Pvt. Ltd.

Cloud Technical Analyst Intern

Kolkata, West Bengal

June 2025 – Sept. 2025

- Optimized cloud infrastructure deployment strategies on Google Cloud Platform (GCP), reducing server provisioning time by **20%** through the implementation of automated Python scripts and resource allocation analysis.
- Resolved **10+** critical configuration incidents during the internship tenure, collaborating with cross-functional teams to maintain system stability and ensure **99% uptime** for development servers.

## PROJECTS

### Amazon Music Review Sentiment Analyzer | Python, NLP, Scikit-learn, GCP

- Architected an end-to-end sentiment analysis pipeline to process **5,000+ product reviews**, utilizing Naive Bayes and Logistic Regression to achieve **85% classification accuracy**.
- Deployed a Linux Virtual Machine on **Google Cloud Platform (GCP)** with Cron jobs to automate daily data extraction and processing, eliminating **5+ hours/week** of manual data entry tasks.
- Visualized customer trend insights using Matplotlib, enabling data-driven product decisions based on real-time sentiment polarity.

### Facial Recognition System | Python, OpenCV, dlib

- Built an offline facial recognition system capable of identifying individuals from a **100-image dataset** with **92% accuracy** under varying lighting conditions.
- Optimized face encoding algorithms to achieve a recognition latency of **under 250ms**, suitable for real-time access control applications.
- Implemented strict privacy protocols ensuring **100% offline processing**, removing the need for external API calls or cloud storage.

## TECHNICAL SKILLS

**Languages:** Java, C, Python, HTML/CSS, SQL

**Frameworks/Libraries:** Flask, Streamlit, LangChain, Scikit-learn, OpenCV, Pandas, NumPy

**Developer Tools:** Visual Studio Code, Google Cloud Platform (GCP), Git/GitHub

## ACHIEVEMENTS

**Scientific Innovation:** Secured 2nd Runner-up in District-Level Science Model Competition (2023).

**Publication:** Published review paper "Application of AI in the Automobile Industry" in the book "Technology of Tomorrow".

**Tech Solutions:** Achieved 2nd Runner-up in Inter-College Innovative Project Competition (2022).

**Academics:** Awarded Academic Excellence Rank Card in 1st,2nd and 3rd year (Top 10% of students).