

# SARTHAK BISWAS

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## Experience

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### NexaTech Innovations

Remote

AI/ML Engineer

April 2025 – Current

- Developed and deployed **LLM-powered internal tools** using **LangChain, LangGraph, and CrewAI**, enabling automation of knowledge workflows.
- Built and fine-tuned **custom classification models** on finance datasets using **Hugging Face Transformers, Scikit-learn, and PyTorch** to generate actionable insights.
- Integrated models into production-ready APIs with **FastAPI** for scalable deployment and cross-team usage.

### 100xDevs

Noida

SDE

Oct 2024 – Feb 2025

- Performed **internal analysis on databases** to extract insights for clients and supported business decision-making using **ML models for pattern recognition**.
- Developed and maintained **fullstack applications** using **Node.js, React, and PostgreSQL**, focusing on scalable and modular architecture.
- Implemented and deployed microservices with **Docker and AWS (EC2, S3, RDS)**, ensuring high availability and reliability.
- Built and exposed RESTful APIs with **Express.js and FastAPI**, integrating authentication, role-based access, and CI/CD pipelines.

## Projects

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### Customer Churn Prediction (IBM Telco Dataset) | Python, Pandas, Scikit-learn

GitHub

- Performed data preprocessing, feature encoding, and scaling to prepare structured telco data.
- Trained and evaluated ML models for churn classification, optimizing for **precision-recall tradeoff**.
- Improved Logistic Regression performance: **PR-AUC increased from 0.647 to 0.662** after feature engineering.

### Sentiment Analysis on IMDB Reviews | Python, Scikit-learn, NLP

GitHub

- Implemented **Bag-of-Words** and **TF-IDF** to classify reviews into positive and negative sentiment.
- Used **out-of-core learning** to efficiently handle large datasets without memory overload.
- Explored **topic modeling (LDA)** to uncover hidden thematic structures in reviews.

### Gather Town-like Multiplayer Meeting App | Node.js, WebSockets, Prisma

GitHub

- Developed a 2D multiplayer virtual space with avatars and **real-time interactions** using WebSockets.
- Designed backend architecture for **meeting rooms, user presence, and interactive objects**.
- Integrated Prisma ORM for database management to handle users, sessions, and rooms efficiently.

### Opinion Trading Platform (Probo-like) | Node.js, Express, Redis, WebSockets

GitHub

- Engineered backend for a real-time opinion trading platform with markets, orders, and payouts.
- Used **Redis Queues and Pub/Sub** for scalable order management and worker coordination.
- Implemented WebSocket channels for broadcasting live market odds and trades.

## Education

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### Rajasthan Technical University

2022

B.Tech in Information Technology

Kota, Rajasthan

## Technical Skills

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**Programming Languages:** Python, JavaScript, C++, SQL

**ML / AI Frameworks:** PyTorch, Scikit-learn, Hugging Face, LangChain, LangGraph

**Data Handling:** Pandas, NumPy, Prisma ORM, Redis, PostgreSQL

**Cloud / DevOps:** AWS (EC2, S3, RDS, Lambda), Docker, FastAPI, CI/CD (GitHub Actions), Cloudflare

**Other Tools:** Git, WebSockets, REST APIs