Shubh Agnihotri

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EDUCATION

Kalinga Institute of Industrial Technology (KIIT University)
Bhubaneswar, India
B.Tech in Computer Science and Engineering; CGPA: 8.15
2022 – 2026

City Montessori School, Gomtinagar-I
Lucknow, India
Intermediate (Class XII); 91%
2022

St. Francis' College
Lucknow, India
High School (Class X); 84.8%
2020

EXPERIENCE / PRACTICAL EXPOSURE

- **AI & Data Science Projects (Academic + Self-Initiated)**: Built ML and NLP systems with preprocessing, feature engineering, model training, evaluation, and REST API deployment using Python and Flask.
- **JPMorgan Chase – Software Engineering Job Simulation (Forage) — Feb 2026**: Developed a Spring Boot microservice with Apache Kafka for transaction ingestion, validation, persistence (JPA, H2), and REST API integration.

PROJECTS

- **AI Resume Checker System**: NLP-based resume analysis using spaCy and scikit-learn for skill extraction and candidate matching; achieved **85%+ accuracy**.
- **Pratham — AI Voice Assistant**: Desktop AI assistant with multilingual speech recognition, automation, and real-time LLM responses.
- **Real-Time AI Search Engine**: Groq-powered search engine with ranked responses and live web scraping using Selenium.
- **AI Sentiment Analysis System**: TF-IDF with Logistic Regression for sentiment classification; achieved **87% accuracy** and deployed via Flask API.

TECHNICAL SKILLS

- **Programming Languages**: Python, Java, C++, SQL, JavaScript, Go
- **Machine Learning & AI**: Classification, Regression, NLP, Vector Search, RAG, Feature Engineering
- **Deep Learning**: Neural Networks, Transformers (basic), TensorFlow, PyTorch, Keras
- **Data Engineering**: Data Pipelines, Data Cleaning, Web Scraping, Automation, ETL
- **Backend & Messaging**: Spring Boot, REST APIs, Apache Kafka, JPA, SQL Databases
- **Cloud & Deployment**: Oracle Cloud Infrastructure (OCI), Model Deployment
- **Libraries & Tools**: scikit-learn, NumPy, Pandas, Matplotlib, Selenium, Flask, Git, GitHub, Jupyter, Linux

CERTIFICATIONS

- **OCI Generative AI Professional — Oracle (2025)**: LLMs, RAG, embeddings, vector databases
- **OCI Data Science Professional — Oracle (2025)**: ML pipelines, model development, deployment on OCI
- **Oracle AI Vector Search Professional — Oracle (2025)**: Semantic search and AI-powered applications
- **21 Projects: ML, Deep Learning & GenAI — GeeksforGeeks**: Built portfolio-grade AI systems
- **Job-Ready Data Science — CodeWithHarry**: EDA, ML, LLMs and RAG workflows
- **McKinsey.org Forward Program — McKinsey & Company**: Business strategy and structured problem solving