

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 2023 – 2027
- **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

- **AI & Data Science Projects (Academic + Self-Initiated):** Designed end-to-end ML and NLP pipelines including data preprocessing, feature engineering, model training, and evaluation. Performed exploratory data analysis and reporting using Python (Pandas, NumPy) and Excel-style tabular workflows. Deployed models as REST APIs using Flask to support automation and downstream integration.
- **JPMorgan Chase – Software Engineering Job Simulation (Forage) — Feb 2026:** Built a Spring Boot microservice to consume and deserialize high-volume transaction data using Apache Kafka. Implemented data validation, persistence, and structured logging using Spring Data JPA, aligning with enterprise documentation standards.

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, Feature Engineering, Model Evaluation
- **Data Analytics:** Exploratory Data Analysis, Data Cleaning, Automation, Reporting, Excel-style Analysis
- **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