

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 / PRACTICAL EXPOSURE

- **AI & Data Science Projects (Academic + Self-Initiated):** Built end-to-end ML and NLP systems including data preprocessing, feature engineering, model training, evaluation, and Flask-based REST API deployment using Python.

PROJECTS

- **AI Resume Checker System:** Developed an NLP-based resume analysis platform using spaCy and scikit-learn for skill extraction and candidate-job matching; achieved **85%+ accuracy** on labeled resume datasets and automated PDF parsing pipelines.
- **Pratham — AI Voice Assistant:** Built a desktop AI assistant with multilingual speech recognition, system automation, and real-time LLM responses; enabled voice-driven task execution using Python automation workflows.
- **Real-Time AI Search Engine:** Developed a Groq-powered real-time search engine with ranked response generation, live web scraping using Selenium, and optimized response latency through parallel request handling.
- **AI Sentiment Analysis System:** Implemented TF-IDF vectorization with Logistic Regression for sentiment classification; trained on large-scale text datasets achieving **87% accuracy** and deployed inference via Flask REST APIs.

TECHNICAL SKILLS

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

CERTIFICATIONS

- **OCI Generative AI Professional — Oracle (2025):** LLMs, RAG pipelines, embeddings, vector databases, LangChain workflows
- **OCI Data Science Professional — Oracle (2025):** ML pipelines, model development, deployment and governance on OCI
- **Oracle AI Vector Search Professional — Oracle (2025):** Semantic search, embeddings, AI-powered applications using Oracle Database 23ai
- **21 Projects: ML, Deep Learning & GenAI — GeeksforGeeks:** Built portfolio-grade AI systems using modern ML and GenAI frameworks
- **Job-Ready Data Science — CodeWithHarry:** EDA, statistics, ML, LLMs, RAG and production-grade workflows
- **McKinsey.org Forward Program — McKinsey & Company:** Business strategy, structured problem solving and communication