

# SHUBH AGNIHOTRI

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## OBJECTIVE

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Aspiring AI/ML Engineer with a strong foundation in computer science, data structures, and algorithms. Skilled in Python, C++, and Java, with hands-on experience in machine learning, NLP, and real-time AI systems. Passionate about developing intelligent automation and data-driven applications.

## EDUCATION

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**B.Tech in Computer Science and Engineering**, Kalinga Institute of Industrial Technology (KIIT University), Bhubaneswar  
Ongoing, 3rd year, CGPA: 8.22 (2nd year end)

**Intermediate (XII) PCM + Computer Science**, City Montessori School, Gomtinagar-I, Lucknow, – 91%

**High School (X)**, St. Francis' College, Lucknow – 84.8%

## SKILLS

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**Programming Languages**

Python, C++, Java, C, Go, SQL, JavaScript

**Libraries/Frameworks**

NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, Keras, PyTorch, Seaborn, Streamlit

**Machine Learning Concepts**

Data Preprocessing, Supervised/Unsupervised Learning, Model Evaluation, Regularization

**Tools & Platforms**

Oracle Cloud Infrastructure (OCI), Git, Selenium, PyQt5, Jupyter Notebook

## PROJECTS

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**AI Assistant Automation System** — Developed a desktop-based AI assistant featuring real-time web search, voice interaction, image generation, and GUI automation using Python, Selenium, and PyQt5. Integrated speech recognition and text-to-speech for conversational flow.

**AI Resume Screening System** — Built an NLP-powered recruitment assistant using spaCy and scikit-learn to classify resumes as 'Hired' or 'Not Hired'. Designed contextual understanding beyond keyword matching and built a dashboard with Flask for visualization.

**Real-Time Search Engine** — Created an intelligent search system leveraging Groq API and web scraping with dynamic ranking. Enabled instant retrieval of factual and up-to-date responses.

**AI Sentiment Analysis System** — Implemented a machine learning pipeline using NLP techniques (TF-IDF, Logistic Regression) to analyze sentiment in user reviews and social media data.

## CERTIFICATIONS

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**OCI AI Foundations Associate (Oracle, 2025)** — Hands-on training in AI, ML, Deep Learning, and Generative AI within Oracle Cloud Infrastructure.

**Machine Learning with Python (Udemy, 2025)** — Gained practical experience in ML models, reinforcement learning, NLP, and deep learning implementation.

**Adobe India Hackathon (2025)** — Qualified for Round 1 (Online MCQ + Coding Challenge).

**CodeChef Skill Series (2024–2025)** — Courses in C, C++, Java, Python, Go, SQL, NumPy, Pandas, Time Complexity, and Logic Building.

## RELEVANT EXPERIENCE

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**SIH 2025 Internals Hackathon** — Participated in Smart India Hackathon 2025 internal round, contributing to AI/ML-based solutions in a team setting.

**Adobe India Hackathon (2025)** — Qualified Round 1 (Online MCQ + Coding Challenge), applied AI/ML skills to real-world problem statements.

**Amazon ML Challenge (2025)** — Worked on practical ML problems, building and evaluating models for real-world datasets.

**AI Resume Screening System** — Built an NLP-powered recruitment assistant using spaCy and scikit-learn to classify resumes as 'Hired' or 'Not Hired'. Designed contextual understanding and built a dashboard with Flask for visualization.

**AI Assistant Automation System** — Developed a desktop-based AI assistant featuring real-time web search, voice interaction, image generation, and GUI automation using Python, Selenium, and PyQt5.

## EXTRA-CURRICULAR & LEADERSHIP

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- Active participant in AI and open-source communities; contributed to automation and ML-based projects.
- Continuous learner, pursuing self-driven AI research and certifications to deepen technical proficiency.
- Engaged in building AI solutions that integrate NLP, automation, and real-time data analysis.