

ABHISEK RAJ

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SUMMARY

I have hands-on experience in **Artificial Intelligence, Machine Learning, and Data Analysis**, with strong expertise in **Flask-based backend integration, end-to-end deployment, and version control.**

TECHNICAL SKILLS

Languages: Java with Dsa, Python, SQL, JavaScript, Flask, FastApi **Tools:** VS Code, Hugging Face, Git, GitHub, CI/CD, Power BI, Colab, Anaconda, MongoDB, Postman, MCP Server, LangChain, LangGraph, RAG, CNN, RNN

Libraries: TensorFlow, PyTorch, Scikit-Learn, Keras, Seaborn, NLP

EXPERIENCE

Machine Learning Developer Intern

June 2025 – Aug 2025

Finessefleet Foundation – Dept. of Electrical Engineering & CS

- Built and trained models for code-mixed Indian languages in **LinguaBridge** using CNN-LSTM architectures.
- Designed translation pipelines using IndicNLP and curated multilingual datasets.
- Project Link: [GitHub](#)
- Research Publication link : [click here](#)

AI/ML Intern

July 2024 – Aug 2024

Central Tool Room & Training Centre (MSME)

- Gained hands-on experience in Python, Machine Learning, NLP, and Computer Vision.
- Developed facial recognition and attendance systems using Keras and OpenCV.

PROJECTS

Lingua Bridge Application

- Implemented multilingual translation for **22+ Indian languages** and **5+ code-mixed languages**, with integrated sentiment analysis.

Cancer Cure Q&A System – CLICK DEMO

- Developed a Flask web application with a custom-trained ML model (.pkl) to answer cancer-treatment related queries.

Movie Recommender – CLICK DEMO

- Built a content-based recommendation system using cosine similarity, Scikit-learn KNN, NumPy, and Pandas.

Customer Segmentation

- Performed customer segmentation using K-Means clustering, visualized insights with Matplotlib and Seaborn.

ISL (Indian Sign Language Translator)

- Created a real-time gesture recognition system with OpenCV to assist hearing- and speech-impaired users.

Interview Preparation Website – CLICK DEMO

- Developed a full-stack platform with React, Node.js, and MongoDB, enabling real-time quizzes, secure exams, and collaborative practice.

Bajaj Policy & Insurance System – CLICK DEMO

- Built an application to manage insurance policies and claims, improving ease of access for customers searching available plans.

Web Scraping & Data Extraction – CLICK DEMO

- Created a Python-based scraper using BeautifulSoup, Requests, and Pandas with automated data cleaning and analysis.

EDUCATION

NIST University

2022–2026

B.Tech in Computer Science and Engineering – Final Year

CERTIFICATIONS

Cyber Security and Privacy (IIT Madras, NPTEL) [Link](#)

Artificial Intelligence Certification (Ministry of MSME)

Deloitte Data Analyst Virtual Task [Link](#)

AWS Machine Learning (NLP) Badge [Link](#)

AI Agents edition credential from Google Cloud Asia Pacific [Link](#)

ACHIEVEMENTS

StarkSeek Hackathon Finalist – Recognized among top teams. [CERTIFICATE LINK](#)

CodeSpark 72-Hour Build Challenge – Achieved 8.9 (Runner-up) among participating teams. [CERTIFICATE LINK](#)