ABHISEK RAJ

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SUMMARY

Enthusiastic and results-oriented professional with hands-on experience in **Artificial Intelligence, Machine Learning**, and **Data Analysis**. Adept at managing end-to-end projects including data collection, preprocessing, model development, deployment, and integrating solutions into web applications.

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript
Libraries: TensorFlow, PyTorch, Scikit-Learn, Keras, Seaborn, NLP

Tools: VS Code, Hugging Face, Git, GitHub, Power BI, Colab, Anaconda, MongoDB, Next.js, Node.js

EXPERIENCE

Machine Learning Research 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

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

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

Web Scraping & Data Extraction — Live 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

ACHIEVEMENTS

StarkSeek Hackathon Finalist — Recognized among top teams. LinkedIn
CodeSpark 72-Hour Build Challenge — Achieved 8.9 (Runner-up) among participating teams. Drive