

# Ajit Singh

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## OBJECTIVE

To pursue advanced research in Computer Science and Engineering with a focus on Natural Language Processing, Machine Learning, and Information Systems, contributing to socially impactful AI systems.

## EDUCATION

### Indian Institute of Information Technology (IIIT) Guwahati

B.Tech in Electronics and Communication Engineering

CGPA: 8.73/10 | Graduation Year: 2022

Academic Distinction, Ranked among top 5 in batch

### Maharashtra State Board - Class XII (HSC)

Percentage: 82.77% | Year of Passing: 2018

### Maharashtra State Board - Class X (SSC)

Percentage: 92.6% | Year of Passing: 2016

## ACADEMIC PROJECTS

### Analyzing Public Opinion on COVID-19 Vaccines Using Twitter (B.Tech Final Year Project)

- Scraped and processed over 2.4 million tweets using Twitter API and snsrape
- Performed sentiment & emotion analysis using VADER, TextBlob, and NRCLEX
- Built topic models with Gensim LDA, visualized via pyLDAvis and t-SNE
- Constructed bigram co-occurrence networks using NLTK and NetworkX
- Visualized trends by time, geography, and topic
- GitHub: [github.com/iamajitsingh/CovidVaccine-AnalyzingPublicOpinion](https://github.com/iamajitsingh/CovidVaccine-AnalyzingPublicOpinion)

### Human Activity Recognition Using Deep Learning (IIIT Pune Research Internship, Summer 2021)

- Conducted literature survey and helped evaluate models on the UTD-MHAD dataset
- Contributed to report writing and comparative performance analysis
- Tech stack: TensorFlow, Keras, NumPy, SciPy

## INDUSTRY EXPERIENCE

### Capgemini Engineering, Gurugram

- Deployed and maintained 5G core services on enterprise container platforms
- Also deployed a Spring Boot-based microservice using Docker and Kubernetes on AWS
- Gained expertise in test-driven development and cloud-native practices
- Technologies used: Docker, Kubernetes, AWS, Java, Spring Boot

## **HACKATHON & COMPETITIVE WINS**

- HackDSC 2021 - VIT Bhopal: First place. Built Django-based platform for Covid-19 emergency response
- Sociothon 2021 - IIT Roorkee: Second place. Created app for low-cost medicine alternatives
- Finalist - Skill Spring Hackathon 2021, IIIT Nagpur
- Top 3 percentile in JEE Main 2018

## **CERTIFICATIONS**

- AWS Cloud Practitioner - Perfect Score (1000/1000) - 2024
- Microsoft Azure Fundamentals - Score: 929/1000 - 2024

## **SKILLS**

Languages: Python, Java, Bash, SQL

Libraries/Tools: Pandas, NumPy, Scikit-learn, Gensim, NLTK, NetworkX, pyLDAvis, Docker, Kubernetes, Spring Boot, Git

Areas: NLP, REST APIs, Topic Modeling, Sentiment Analysis, DevOps (CI/CD)

## **RELEVANT COURSEWORK (IIIT G)**

C Programming, Data Structures, Operating Systems, Computer Organisation, Object Oriented Programming

## **LINKS**

[Twitter NLP GitHub Project](#)

[Certificates Index \(Drive + GitHub links\)](#)