

# HASANABBAS MOMIN

International Institute of Information Technology, Bangalore  
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## Education

International Institute of Information Technology, Bangalore

Nov. 2020 – July 2025

Integrated M.Tech. (CSE)

3.31 / 4 CGPA

## Achievements

AIR 1812 — JEE Mains (2020)

AIR 3029 — JEE Advanced (2020)

## Experience

Oracle

May 2024 – July 2024

Summer Intern As OCI Engineer

Bangalore On Site

- Created integration testing suite for an internal log streaming agent using Ansible modules.
- The ansible scripts included creating a cloud instance and other required resources, installing the agent, testing its functionality, and terminating the instance.
- Business Impact: More than 2 to 3 hours of developer effort per master commit to the agent repository is saved.
- Learned about Oracle Cloud Infrastructure and working with its resources like VM instances, VCN etc. and its services like Build service, Pipeline services etc.

## Mentorship

Teaching Assistant

August 2023 – Dec 2023

Cryptography Engineering

IIT Bangalore

- Facilitated interactive problem-solving sessions where students discussed problem sets assigned by the professor.
- Clarified doubts related to exams during these sessions.

## Projects

Knowledge Graph Based Chatbox (Web App) | Python, LLM, Knowledge Graph, Research Project

May 2024

- News Article Extraction and Summarizing: News articles are fed into Neo4j knowledge graph as entity relationship using Diffbot NLP.
- Users can input english queries which are fed into LLM API (Claude Sonnet) and converted to Neo4j cypher queries. These are used to extract information from the Knowledge Graph.
- Used prompt engineering techniques to get cypher query from English query.
- Used LLM API for summarizing the news article.

NextStop (Recommendation System) | Python, Numpy, Pandas, Scikit-learn

April 2023

- Travel Destination Recommendation system: Leveraged data from various users' travel histories to create and train a machine learning model.
- Users can input their past travel histories, and the system recommends new destinations for them to explore.
- Employed techniques such as collaborative filtering and content-based filtering, and compared their performance.

SocialAnalysis (Web App) | React, NodeJS, MongoDB

April 2023

- Developed a Social media analysis Web Application, showing different analytics on specific platforms like Instagram and TikTok.
- Employed MongoDB to perform analytical queries on raw data, presenting results on the web applications through charts.

Pubg Final Rank Predictor | Numpy, Pandas, Scikit-learn

Dec 2022

- Developed an ML model to forecast player rankings and scores at the end of a PUBG match using different game stats.
- Applied machine learning techniques, including feature engineering and models such as Lasso/Ridge Regression, Decision Tree, Random Forest, XGBoost, and LightGBM, with their hyperparameter tuning.

## Technical Skills

**Languages:** C, C++, Python, Java,

**Technologies/Frameworks:** Ansible, Django, Matplotlib, NumPy, Pandas, Scikit-learn, MySQL, Jenkins, GitHub, JUnit

## Relevant Coursework

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- Data Structures and Algorithms
- Computer Networks
- Design and Analysis of Algorithms
- Database Management
- Machine Learning
- Graph Theory
- Operating Systems
- Cryptography Engineering
- Software Production Engineering
- Secure Computation
- Software Testing
- Recommendation System

## Leadership / Extracurricular

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### Chhayachitra (photography club)

*Core member for 2 years*

### Zense (programming club)

*Member for 2 years*

### Organized Pratibimb (Photography competition)

*In Infin8 (annual cultural event)*

Volunteering for College events like Spandan (intra-college sports event), Umang (inter-college sports event), INFIN8, charity marathon