

Himanshu Kumar Patra

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EDUCATION

Odisha University of Technology and Research, Bhubaneswar, Odisha
Master in Computer Application (MCA)

2023 – 2025

- **CGPA: 8.55**

TECHNOLOGIES

Languages: C++, C, Javascript, Python, SQL

Technologies:

- **Frontend - HTML5, CSS3, JavaScript, React.js, TypeScript, Next.js**
- **Backend - Node.js, Express.js**
- **Database - DBMS, MongoDB, SQL, PL/SQL**

Tools/Platforms: Git, GitHub, MS Office, MySQL, VS Code, Postman, Jupyter Notebook

PROJECTS

ReadEase - Full Stack Opensource E-library web application

- Developed a scalable backend with secure registration and login system using **Node.js**, **Express.js**, and **MongoDB** for robust user authentication and authorization.
- Integrated advanced search and filtering for seamless book discovery, with a responsive interface built using **React.js** and **Tailwind CSS**.
- Enhanced security with **JWT**-based authentication, ensuring safe and protected user access.

ExpressTalk - A live chat web application

- Developed a **MERN stack**-based web app for real-time chat, featuring instant messaging, group creation, friend requests, and user search functionalities.
- Integrated **Socket.io** for real-time communication, and used **Node.js** and **Express.js** to manage backend operations.
- Utilized **MongoDB** for efficient storage of user data, chat history, and group information, with a responsive UI built using **React** and **Tailwind CSS** for seamless cross-device experience.

Emosense -]Harnessing Machine Learning for Sentiment Insights

- Developed a web application to analyze sentiment insights from user reviews and opinions across various online platforms.
- Utilized **Python** and **Logistic Regression** to classify sentiments as positive, negative, or neutral based on textual input.
- Employed **tfidfVectorizer** for effective text representation and feature extraction and implemented **GridSearchCV** for hyperparameter tuning, optimizing the model for accurate sentiment analysis across diverse datasets.

EXTRACURRICULAR/ACADEMICS ACTIVITIES

Alumni Coordinator

Sep 2023 - Present

MCA Department, Odisha University of Technology and Research, Bhubaneswar, Odisha

Led initiatives to strengthen alumni engagement, organized networking events, and facilitated communication between alumni and current students to enhance professional opportunities and mentorship within the MCA department.

All Odisha Rank 34

2023

Odisha Joint Entrance Exam (OJEE) for MCA

All India Rank 147

2023

Coding World Cup, Coding Ninjas

CERTIFICATIONS/SHORT COURSES

- [The Complete 2024 Web Development Bootcamp](#) by Dr. Angela Yu, Developer and Lead Instructor A comprehensive full-stack program covering HTML, CSS, JavaScript, Node.js, React, and MongoDB, with hands-on projects to build real-world web applications.