

KHAGESH IPPILI

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EDUCATION

Indian Institute of Technology Dharwad (IITDH) | Karnataka, India
B.Tech in Computer Science and Engineering

[July'22 - June'26]

PROFESSIONAL EXPERIENCE

Full Stack Developer Intern | RateBotAi

[May'24 - July'24]

Worked for frontend part for this project

- Developed a fully automated, contactless check-in system using **React** and **Flask**, integrated with Property Management System (PMS) and digital locks providing secure guest entry, successfully deployed in over 50 hotels
- Created a user friendly **Web page**, using **HTML**, **CSS** and **Java script**
- Enhanced the PMS by adding advanced features such as customizable filtering, interactive data visualization, and detailed reporting, supporting over **250 data points**, and achieved a **40% reduction** in report generation time

TECHNICAL AND ACADEMIC PROJECTS

Cloths Recommendation System AI

[Spring 2024]

Artificial intelligence | Guide: Prof. Jivnesh Balasaheb Sandhan, IIT Dharwad

- Engineered a cutting-edge AI model that takes user photos, identifies gender using **Convolutional Neural Networks (CNN)**, and generates tailored clothing recommendations based on individual preferences and input imagery
- Integrated multiple machine learning techniques to extract dominant colors from photos, convert images to grayscale, and precisely cut borders to focus on key features, enhancing the accuracy of clothing suggestions
- I developed a friendly web page to show our output by using **HTMML CSS** And **Java script**.

Movie Recommendation System

[Spring 2024]

Artificial intelligence | Guide: Prof. Jivnesh Balasaheb Sandhan, IIT Dharwad

- Led the development of a Movie Recommender System project, integrating Content-Based and Collaborative Filtering techniques, achieving **92.7%** recommendation accuracy
- Oversaw the integration of Bag of Words, TF-IDF, BERT, SVD, and Neural CF algorithms, optimizing system performance.
- I developed a friendly web page to show our output by using **HTMML CSS** And **Java script**.

Speech-to-Speech Translation Model

[Autumn 2024]

Deep Learning, Audio Preprocessing

- Developed an innovative speech-to-speech translation pipeline leveraging CoT-ST model and CoVoST-2 dataset for multilingual translations
- Trained the model using a curriculum learning approach, achieving a BLEU score of 19.98, with 1-gram precision at 52.7%
- Integrated Whisper's speech encoder to extract high-dimensional audio features, reducing training time by 30%
- Optimized the translation pipeline to handle over 1,000 audio samples, maintaining robust performance across tasks
- Proposed future work, including integration of speech vocoders for real-time speech generation and enhanced multilingual support

Medicos AtoZ | Launched on Google Play Store

[Dec'21 - Apr'22]

An Educational Technology platform connecting various aspects of a Pre-Med student's world

- Co-developed the app with **Flutter** and **Firestore**, and achieved over **1,000+ downloads** within the first month
- Implemented features such as **Search Functionality**, topic categorization, and **Interactive Elements** like quiz platform, blog, favorites section, news section, points program, and a notification system to enhance user engagement

CERTIFICATIONS AND MOOC

- **100 Days of Code: The Complete Python Pro Bootcamp** — Udemy
- **C++ Data Structures Algorithms + LEETCODE Exercises** — Udemy
- **The Complete Web Development Bootcamp** — Udemy

TECHNICAL SKILLS

Programming	Python, SQL, JavaScript, C++
Web Development	HTML, CSS, React.js, Node.js, Express.js, MongoDB
Softwares	Git, PowerBI, Tableau, MS Office, MATLAB, \LaTeX

EXTRA CURRICULAR ACTIVITIES

- **Coding Club** member of Indian Institute of Technology Dharwad
- Participated in **General Championship Cricket tournament**, lead the team as a middle order batsman
- Selected as Cricket Club member out of **100+** participants of Indian Institute of Technology Dharwad

Hobbies and Interest: Traveling, Fitness, Nutrition, Self-improvement, Detective fiction, Competitive Programming