Khagesh Ippili

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Scholastic Achievements

- Achieved **All India Rank 8305** in **JEE - Advanced** examination out of over **230,000** candidates *(2022)*
- Pupil, in (**Codeforces**) with a maximum rating of 1210 *(2024)*
- 3 star coder, in **Codechef** with a maximum rating of 1643. *(2024)*

Professional Experience

Full Stack Developer Intern | RateBotAi   *[May'24 - July'24]*
- 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
- 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
- Upgraded the Channel Manager System by developing an interface for mapping hotel rooms across various OTAs, featuring dynamic visualization and real-time synchronization using **ReactFlow**, integrated with over 100 OTAs

Full Stack Web Developer Intern | *Edu-versity*   *[June'24 - July'24]*
- Designed, developed, and deployed full stack web applications using React, Node.js, and Express, resulting in a 20% improvement in user engagement.
- Implemented responsive design principles with HTML5 and CSS3, enhancing the user experience across all devices and increasing site accessibility by 30%.
- Engineered scalable database solutions with MongoDB, optimized queries, and reduced data retrieval times by 40%.
- Actively participated in Agile development sprints and utilized Git for version control, leading to a streamlined workflow and successful completion of key project milestones.

Key Projects

Cloths Recommendation System AI | *Course Project*   *Spring 2024*
Instructor: Prof. Jivnesh Balasaheb, Artificial Intelligence and Machine Learning

- 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.
- Implemented a dynamic recommendation system that adapts suggestions based on user feedback, previous interactions, and evolving fashion trends, ensuring personalized and accurate clothing recommendations.

Movie Recommendation System | *Course Project*   *Spring 2024*
Instructor: Prof. Jivnesh Balasaheb, Artificial Intelligence and Machine Learning

- 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.
- Utilized machine learning libraries, such as TensorFlow and scikit-learn, in a project to develop predictive models.
- Designed and developed a user-friendly React-Django website which helps in finding the movies similar to the ones we have searched for.

OTHER PROJECTS

App Development using Flutter | *Self Project*   *Summer 2024*

- Developed a website enabling secure access for **sports facilities**, streamlining logistics management.
- Utilized **Django**, reducing backend development time by 25%.
- Employed modern stack **(HTML, CSS, JS, React, Bootstrap)**, ensuring responsive design across devices.
- Integrated **SQLite**, enabling efficient data storage and retrieval.

Personal Website | *Course Project*   *Spring 2022*
Instructor: Prof. Kameswari Chebrolu, Software Systems lab

- Created a model personal website to write about me, my hobbies, ways to contact me and my education statistics and made an elegant header bar for these sections for better visibility and to easily navigate through the website
- Added styling to the web page with **CSS** and enhanced it by inserting pictures and good-looking font families

Minesweeper Cricket | *Course Project*   *Spring 2023*
Instructor: Prof. Kameswari Chebrolu, Software Systems Lab

- Designed an interactive and fun game combining Minesweeper and Cricket, using **HTML**, **CSS**, and **JavaScript**
- Embedded various features into the game including customizable grid size and made an appealing user interface
- Enhanced the game to have two modes - Single Player and Multi-player modes, declares winner in multiplayer

Auto Completion of Sentences | *Course Project*   *Autumn 2023*
Instructor: Prof. Ashutosh Gupta, Data structures and Algorithms

- Implemented a code that auto completes sentences by using **trie** data structure and **KMP** searching algorithm
- Generated all possible auto complete sentences and the most probable auto complete suggestion based on the repetition of proposed autocomplete word and the preceeding word in the query appeared in the user's text history

RELEVANT COURSES

Computer Science:	[†]Software Systems Lab, Computing Programming, [†] Data Structures and Algorithms, Data Structures and Algorithms Lab, Discrete Structures, Design and Analysis of Algorithms, Automata Theory, [†]Computer Architecture, Computer Architecture Lab [†]Artificial Intelligence and Machine Learning, Artificial Intelligence Lab, [†]Operating Systems, [†]Database and Information systems*, [†]Implementation of Programming Languages*, Data Bases and Information Systems Laboratory, Deep Learning
Mathematics:	Calculus I, Calculus II, Linear Algebra, Differential Equations I, Data Analysis, Introduction to Probability
Others:	Quantum Physics and Application, Hands on Science Laboratory, Introduction to Fine Arts, Design thinking and Creativity, Concepts and Applications of Chemistry, Biology, Economics, Electricity and Magnetism, Astrophysics for Engineers, Modernism and the 'Hero'

*To be completed by November 2024, **To be completed by April 2025, [†]Includes labs*

CERTIFICATIONS AND MOOC

- **100 Days of Code: The Complete Python Pro Bootcamp | Udemy**   *(2024)*
- **C++ Data Structures & Algorithms + LEETCODE Exercises | Udemy**   *(2024)*
- **The Complete Web Development Bootcamp | Udemy**   *(2024)*

EXTRACURRICULARS

- **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
- Selected as Dance Club member of Indian Institute of Technology Dharwad
- Participated in **General Championship Badminton tournament**
- Selected as Badminton Club member of Indian Institute of Technology Dharwad