

Ankit Raj

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SUMMARY

Innovative and detail-oriented Computer Science undergraduate with solid problem-solving skills and proficiency in Python. Skilled in designing AI-driven solutions using natural language processing and computer vision, demonstrated through projects work. Seeking a Software Developer internship to apply technical knowledge, and further professional growth through continuous learning and excellence.

EDUCATION

Amrita Vishwa Vidyapeetham

Bachelor of Technology (CSE)

Amaravati, Andhra Pradesh

CGPA: 9.37 | October 2022 – October 2026

S D Public School

Higher Secondary School

Patna, Bihar

Percentage: 77% | May 2019 – July 2021

Bihar Public School

Secondary School

Patna, Bihar

Percentage: 93.6% | April 2011 – May 2019

RELEVANT COURSEWORK

- Natural Language Processing
- Object-Oriented Programming
- Data Structures and Algorithms
- Computer Vision
- User Interface Design
- Database Management Systems

PROJECTS

Voice-Driven File System Automation | Python, spaCy, T5 Transformer

September 2024

- Engineered a system-level software solution to automate file management using Google's speech recognition API, enabling voice commands for file operations.
- Integrated natural language processing (NLP) with spaCy and a T5 transformer fine-tuned on a custom dataset to convert user instructions into machine-readable JSON format.
- Implemented advanced features including batch operations, task automation and scheduling, and metadata-based filtering, significantly improving efficiency.

Dynamic Weather Report | Python, Django, JavaScript

April 2024

- Developed a full-stack web application using Python with Django for the backend, creating RESTful APIs for efficient data retrieval and manipulation.
- Integrated OpenWeatherMap API and geocoding services to retrieve and display live location-based weather data, allowing up to 1000 queries per day.
- Designed a manual location search bar feature, enhancing user experience by enabling accurate location searches.

Regex Query Tool | Python, Tkinter

January 2024

- Developed a GUI-based text processing application using Python's Tkinter library for user-friendly text manipulation tasks.
- Implemented five key features, including text highlighting, pattern capturing, text replacing, file opening, and regex help.
- Incorporated a regex help feature explaining over 20 common patterns and symbols, accessed in more than 50% of sessions.

TECHNICAL SKILLS

Languages: Python, C/C++, Java, SQL (MySQL), JavaScript, HTML/CSS

Libraries: NumPy, pandas, Matplotlib, seaborn, spaCy, Tkinter, pytest, Beautiful Soup

Developer Tools: GitHub, VS Code, Jupyter Notebook, Sublime Text, MySQL Workbench

Designer Tools: Adobe Illustrator, Figma, Maya

ACHIEVEMENTS

- Cleared IIITH-LEEE (2024) securing All India Rank under 30.
- Active participation in coding contests held on codeForces with a rating of over 1050.

LANGUAGES

- English (Professional working proficiency)
- Hindi (Native or bilingual proficiency)
- Japanese (Elementary proficiency)