ANUJ DWIVEDI

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Education

Ramaiah Institute of Technology **2021 - 2025**
B.E in Artificial Intelligence & and Machine Learning *7.63/10 CGPA*

Work Experience

MotionCut **October 2023 - November 2023**
Python Intern *Remote*

- Designed a dynamic web-based Weather Application using the **OpenWeatherMap API** and implemented in Python that serves in 50+ locations. Applied error-handling techniques for smooth functionality.
- Analyzed web scraping techniques, particularly employing the **Beautiful Soup** library in Python, to extract valuable data from various websites. Navigated HTML structures, parsing content, and extracting information from 150+ sources and a total of 25000+ fields relevant to project requirements. Developed an understanding of **web scraping** methodologies, data manipulation, and automation contributing to the success of data-driven projects.

Projects

Dynamic Review Scraper API - *Python, Selenium, Cohere API, Flask* Source Code

- Developed an API server for extracting product reviews from platforms by dynamically identifying review-specific CSS elements using **LLM integration (Cohere API)**. Implemented pagination handling to retrieve complete reviews data. Designed a **GET API endpoint** returning a JSON response with total reviews and detailed data, supporting scalability and easy integration.

Smart India Hackathon: ML-Based CAPTCHA - *Python, Flask, Scikit-Learn* Source Code

- Developed a machine learning-based solution for CAPTCHA refinement aimed at differentiating between bots and humans for enhanced security in UIDAI portals. The solution passively captures environmental and behavioral parameters (e.g., mouse movements, typing patterns) through the browser and analyzes the data using a **supervised learning model (Random Forest).** Designed a mock website with **embedded data collection scripts and trained a model** to classify interactions as human or bot with high accuracy.

TourMate - *Flutter, Python, MongoDB, TensorFlow, Maps API* Source Code

- Programmed a comprehensive travel planning app that assists users in creating optimized itineraries for 75 tourist destinations. Utilized **Graph Principles and Clustering Algorithms** to recommend the best routes and prioritize must-see locations within 20 kilometers of a city. Integrated **Google Maps API** to optimize routes and saves 25% time of a user in travelling and planning a holiday.

Technical Skills

Coursework: Data Structures, Algorithm Design, Operating Systems, Database Systems, Computer Networks, OOP, Data Science, Machine Learning, Big Data Analytics, NLP, Edge Computing, DevOps, MLOps, NoSQL
Languages: C++, Python, C, Java, HTML, CSS, Dart
Databases: MySQL, MongoDB, Neo4j, Cassandra
Tools & Frameworks: Django, Flask, PyTorch, Tensorflow, Git, Selenium, Flutter, Android Studio

Problem Solving and Certifications

- Solved **450+ DSA problems** on **GeekForGeeks** honing problem-solving skills and mastering various algorithms and data structures essential for software development. Profile
- Achieved a contest rating 1450 on **LeetCode** placed among top 35% contestants at a Global Level. Profile
- Secured Problem Solving, Python and MySQL (Basic) Certificate on **HackerRank.** Profile
- Received **Machine Learning Specialization Certification by Stanford University**, comprising three modules: Supervised Learning, Unsupervised Learning, and Advanced Learning Algorithms.
- Received **Natural Language Processing Specialization Certification by Stanford University**, comprising four modules: Classification and Vector Spaces, Probabilistic Models, Sequence Models and Attention Models.

Leadership and Extra-Curricular

- **Entrepreneurship Development Cell - Head of Logistics** - *Official Business Cell in College.* Hosted Finance and Tech related events for 350+ members.