Ankit Yadav

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EDUCATION

Indian Institute of Technology Mandi   H.P. India | 2019-present
BACHELOR OF TECHNOLOGY IN ELECTRICAL ENGINEERING
- **Cumulative GPA:** 8/10
- **Relevant Coursework:** Data Structures and Algorithms; Data Science; Data Handling and Visualization; Database Systems; Mathematics for Computer Science; Machine learning; Probability Statistics.

WORK EXPERIENCE

WESTERN DIGITAL | FIRMWARE ENGINEERING INTERN   Bangalore, IN | Jan 2022 – July 2022
- **Firmware Development**: Contributed in the field of firmware development of HDDs and worked on the debug improvement items and improved the **code quality**. Developed and added new feature to the firmware code base and made it unit testable.
- **Unit Testing:** Wrote the Unit tests to test the smallest part of the functions which can be tested independently and individually. Learned to handle the errors at first level and increased the Unit test coverage in the files.
- **Tool Development using Python:** Carried out the experiments and worked on developing the tool which is useful in testing the internal working of the HDD. Also helped the team to get the idea of what all sort of configurations is best suitable for an environment a user is working.

SKILLS

Languages: C/C++, Python, SQL (MySQL)   **Web Development:** HTML, CSS/BootStrap, JavaScript, ReactJS
Interest: OOPs, Data Structures and Algorithms   **Technology:** Git/Github, VS Code, Jupyter, MATLAB, DBMS

PROJECTS

SMART-DRAWER ⬈   ARDUINO, THUNKABLE, FIREBASE, CLOUDINARY, PYTHON
- A Physical drawer linked to an app via firebase in order to maintain an inventory of things for easy management.
- The drawer consisted of Arduino, Camera Module, NodeMCU, and other sensors.

DATA ANALYSIS ⬈   PYTHON, PANDAS, NUMPY, MATPLOTLIB, SCKIT-LEARN
- Worked on different data sets and Handled the missing values with outlier analyses. **Pre-processed** the data by Normalization of attributes.
- **Data Classification** using K-Nearest Neighbor Classifier and Bayes Classifier with Unimodal Gaussian Density.
- Implemented **Linear Regression** on Multiple Attributes, Polynomial regression on Single Attribute, Auto Regression from scratch successfully.

SORTING VISUALIZER ⬈   TIME STAMP, JAVASCRIPT, HTML, CSS
- Created a web app to visualize how various sorting algorithm works. It has a Simple UI.
- Useful things for this project was one Dom Manipulation and another was the timer function in Javascript.
- It allow users to select from the various sorting techniques, controlling the speed of the visualization and generate new array of different sizes.

ACHIEVEMENTS AND EXTRACURRICULAR

- **Global Rank 3308** | Programming skills | **Interviewbit**
- **4 star** in Problem Solving | **HackerRank**
- **All India Rank 2833** Joint Entrance Exam Advanced, among 200,000 candidates
- **1st Position** ROBONOX-2020 | **Techfest IIT Mandi**
- **Planning and Management Head** AstraX'21 | IIT Mandi
- **Core Team Member** Programming Club and Robotronics Club | IIT Mandi