Yash Dnyaneshwar Hatwar

3rd Year Undergraduate

Department of Aerospace Engineering

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Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2021 - Present	B.Tech.	Indian Institute of Technology, Kanpur	7.1/10
2021	MHSC(XII)	Shivaji Science College, Nagpur	90.17%
2019	CBSE(X)	St. Claret E.M School	93%

Scholastic Achievements

- Secured **All India Rank 9558** in **JEE Advanced 2021** among the 1.4 Lakh shortlisted candidates.
- Secured **All India Rank 17517** in **JEE Mains 2021** among the 9.4 Lakh shortlisted candidates.

Key Projects

- **Predicting Stocks Return using CAPM and FAMA French model (FAC IITK)** (*July'2022-October'2022*)
  - Implementation of **Capital Asset Pricing Model** and **FAMA French Model** using specifically basic python libraries like Numpy and Pandas and applying these frameworks to estimate the expected returns of individual **stocks** or portfolios.
- **Introduction to Machine Learning and Deep Learning (Stamatics IITK)** (*May'2023-July'2023*)
  - Acquired proficiency in data generation, pre-processing, and visualization using Matplotlib ,Pandas and Numpy
  - Successfully implemented and developed intuition behind algorithms for supervised and unsupervised machine learning
- **Sudoku Program- Solving and Generation (self Project)** (*Nov'2023-Dec'2023*)
  - Made a Sudoku generator which generates solution in one click with HTML,CSS and Javascript with the help of backtracking.
  - Have made multiple projects- Calculator image slider chrome extension and discord bots with python and other frameworks
- **BASCULE BRIDGE-Manufacturing Processes (course project-TA202)** (*July'2022-November'2022*)
  - Made a working project model that uses sensors to detect the object at specific distance and then opens up the bridge with gear and sprocket chain mechanism. Used micro-controller platform **Arduino** to implement Analog signal detection ,Digital signal detection,Communication interfaces Signal processing and Data logging and analysis.
- **A BIRD MODEL-Manufacturing Processes (course project-TA201)** (*Jan'2023-April'2023*)
  - Made a bird with metal sheets using process like welding ,object fabrication,sheet metal fabrication with advanced machines

Technical Skills

- **Programming Languages:** C ,C++ ,HTML ,LaTeX,Python ,Javascript,**Matlab** and **CAD :** Fusion 360

Relevant Courses

Data Structure and Algorithms	**Coding Ninjas**
MSO203	Linear algebra and Differential Equations
ESC101	FUNDAMENTAL OF COMPUTING
ESC201	INTRODUCTION TO ELECTRONICS
AE675*	INTRODUCTION TO FINITE ELEMENT METHODS
DES643*	Design for Augmented Reality and Virtual Reality

Certificated Course by Coding Ninjas in DSA (*Nov 22'-ongoing'*)

- Data Structures and Analysis in C++, Studied concepts **Object Oriented Programming**, Linear data structures, Trees, Graphs, Advanced Data structures and **dynamic programming**. Also passed their **DSA skill tests**. certificates link: here.

Other Activities

- **Udghosh Senior Executive Events** (*oct 14-16' 2022*)
  - Crucial role in planning, coordinating, and executing various activities and logistics involved in the fest ,scheduling of events.
  - Managed students from other colleges and organized athletics specific events in a 3 days sport's fest more than **450+** collages
- **Antaragini Secretary Films and Photography** (*March 16-19'2023*)
  - Conducting the events, accommodation and logistics of **2000+ participants** in one of the Asia's largest fest .
  - Increased Campus Ambassadors registrations from various colleges and Ensured smooth registration of colleges participating
- **Team, Athletics IITK** (*2022'-ongoing'*)
  - Member of **Athletics team IIT Kanpur** Represented IIT kanpur in tournaments like **Inter-IIT** ,udghosh and intra-halls
  - Motivated others especially batchmates juniors for regular athletics practice and participation in many events conducted.

Extra-Curricular Activities

- Won **gold** in cricket tournament hall 12
- Won **silver** in kabaddi **inter-halls** events for hall 5.
- Won **bronze** in Institute Cricket League 23 .
- Represented IIT kanpur in **INTER-IIT'dec 2022** athletics , was a finalist in 110mH race. (*june 23'*)
- Represented IIT Kanpur in **Udghosh Athletics 22-23** 400mHurdles(**4th position**),110mH (**4th position**) and relays.