YASH JAGDISH KULKARNI

4th Year Undergraduate, Mechanical Engineering with Minor in Industrial and Management Engineering

@ yashjk@iitk.ac.in   kulyash22   in kulyash   ✆ +91 7620525092

EDUCATION

Indian Institute of Technology, Kanpur
B.Tech in ME (Minor in IME)   *CPI: 9.1/10*
📅 2018 - Present   📍 Kanpur, India

Shri Pramod Patil Junior College, Nashik
XII, HSC   *Percentage: 86.0%*
📅 2018   📍 Nashik, India

Wisdom High International School, Nashik
X, IGCSE   *Percentage: 95.4% (9 A*'s)*
📅 2016   📍 Nashik, India

ACHIEVEMENTS

- Successfully bagged the 2nd **National Runner-Up** position at **AB InBev's Maverick 2.0 Hack-a-thon** from among **750+** teams and **2204** participants.
- **National Finalist** (among top **9** teams) at **TVS Credit E.P.I.C. IT Challenge** from among **2445** participants.
- **National Finalist** at **Cube Highways Hackathon** from among **2429** participants, where 2 of our ideas were selected among top 21 for the finale.
- Scored an SPI of **perfect 10** during sixth semester.
- Secured **AIR 448** in JEE Mains 2018 among **1.05 M** participants and **AIR 1466** in JEE Advanced 2018.
- Selected for **KVPY Fellowship Award** (**AIR 1296**) at Kishore Vaigyanik Protsahan Yojana Exam 2017.
- **Olympiad Rank 1** at **ISSO 2015** by **CPS Olympiads**.

SKILLS

Languages
C/C++, Python (Flask, Tesseract, OpenCV, Tensorflow, Pandas), HTML, Javascript, CSS, SQL

Software Utilities
IBM ILOG CPLEX Optimization Studio, MS Excel

Android Studio, Adobe Premiere Pro, LaTeX

COURSEWORK   * : ongoing C : coursera

Data Structures and Algorithms	Probability and Statistics*
Analytics in Transport and Telecom	Fundamentals of Computing
Derivative Contracts*	Operations Research for Management*
Deep Learning Specialization^C	Machine Learning by Andrew Ng^C
Project Management*	Applied Numerical Methods*
Ordinary and Partial Differential Equations	Complex Analysis
Linear Algebra	Real Analysis

EXTRA CURRICULARS

Table Tennis
- Successfully completed **TT Sports Summer Camp'19** for the preparation of **Inter IIT Sports Meet**.

Tabla
- Performed at various **Tabla** events like Guru Purnima and inter-school competitions.

French
- Studied **French** for **6 years** as a foreign language at school and scored **94/100** in IGCSE French.

INTERNSHIPS

Software Development Engineering Intern | Zomato
Supervisor: Sumanshu Dwivedi, VP Engineering   *July 2021 - Ongoing*
Batching Parameters
- Working with the order assignment & fulfillment team on **improving batching parameters** with the goal to **reduce breaches** in batched orders.
- Using **SQL** for analyzing reasons for breaches during previous food deliveries.

Global Markets Analyst Intern | HSBC
Supervisor: Gaurav Verma, EQD Structuring and Solutions   *May 2021 - July 2021*
Back-testing Web Application
- Developed a fully functional **web application** using **Python and Flask** for back-end and **Bootstrap** for front-end, so that strategies for various **derivatives** could be **back-tested** within seconds (required **15-20 minutes** previously).
- Included **Equity Note** (having principal protection) as an investment type, **FX adjustment** if FX data was provided and various types of **exotic options**.

Coding Problem Setter (Freelance) | iMocha
Supervisor: Laxmikant Kharangate, Quality Analyst   *July 2021 - Ongoing*
- Submitted various **coding** problems requiring knowledge of **Data Structures & Algorithms** along with 12 test cases and solution codes for each problem.

HACKATHON AND ACADEMIC PROJECTS

Stock Balancing | AB InBev's Maverick 2.0 Hack-a-thon
Hackathon Team: The Craftsmen   *March 2021 - May 2021*
- Formulated the problem of **balancing the stock** at various **breweries**, **depots** and **distributors** with respect their **reorder points**, as a **linear programming** problem, solved it exactly using **CPLEX** and displayed the results on a web app.

Auto Identification and Extraction of Data from KYC Document using AI/ML | TVS Credit E.P.I.C. IT Challenge
Hackathon Team: Kulchau   *February 2021 - March 2021*
- Devised an algorithm to **identify** the **type** of the KYC document and **extract** the **UID** present on the input image of the document, with an accuracy of **95%**.
- Used **Pytesseract** for **OCR** and presented both **web** and **android** applications.

Tic-Tac-Toe Game using MiniMax Algorithm
Self Project   *August 2021*
- Made a player vs computer game in C++, where the computer never loses.
- Implemented the **MiniMax Algorithm** which enables the computer to consider **all possible scenarios** and accordingly make the **optimal move**.

2048 Game Simulation | ESC101A Project Track
Supervisor: Prof. Swaprava Nath, CSE Department   *February 2019 - April 2019*
- Implemented the **2048 game** (a sliding block puzzle with an objective to create higher powers of 2) in **Pygame** with a **"hint" button** using basic AI help.

COMPETITIVE PROGRAMMING

- **Codeforces** [handle: **kulyash**] Achieved Max. Rating of **1885 (Expert)**.
- **CodeChef** [handle: **kulyash**] Achieved Max. Rating of **1947 (4 star)**.
- **LeetCode** [handle: **kulyash**] Achieved Max. Rating of **2059**.
- Secured **Global Rank 211** among **13000+** participants in **CF Round #715**.
- Secured **Global Rank 73** in **July Cook-Off 2021** among **4701** participants.

POSITIONS OF RESPONSIBILITY

Captain, Table Tennis Team
Games and Sports Council, IIT Kanpur   *June 2021 - Present*
- Will be responsible for **leading** the team at the inter-college **TT competitions**.
- Responsible for **organizing** events in the team to strengthen the team bonding.

Student Guide
Counselling Service, IIT Kanpur   *July 2019 - April 2020*
- Counselled **4 freshmen** personally and helped them acclimatize to college life.
- Assisted in smooth conduction of **Orientation 2019** for over **1000** freshmen.