SEPTEMBER 27, 2022

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## **Personal Profile**

A Master's student at the University of Leeds, undertaking the Data Science and Analysis course. Zealous about software engineering and with 1+ years of experience specialising in machine learning, python development, algorithms, and full-stack web development. Primarily, looking for Machine Learning/Data Engineer/Python Developer roles.

# Education

### **University of Leeds**

MSc in Data Science and Analysis

- Head of School International Excellence Scholar
- Working as a PAL Mentor
- Courses: Data Science, Programming for Data Science, Knowledge Representation and Reasoning, Statistical Theory and Methods, Learning Skills through Case Studies, Artificial Intelligence, Machine Learning, Statistical Learning

### **Madhav Institute of Technology and Science**

#### BTech in Information Technology

- · Graduated with Distinction
- Selected for Industrial Visit among the top of the class

#### Atomic Energy Central School

**High School** 

- · Passed with Distinction
- Specialised in Physics, Chemistry, and Maths with Computer Science

### Work Experience

### Indian Institute of Technology

Software Engineer

- Collaborated with a four-person team to develop a CNN model that utilised YOLO as a foundation to improve the accuracy of ambient lighting conditions in the Mobile net architecture.
- Automated and optimised the data handling process for traffic signs, working with Ubuntu 20.04 did shell scripting, and employed other Linux tools
- Significantly boosted the model's accuracy by 60%, which was yielding an accuracy of 70-78% under Indian street light. The older models, had an accuracy of 10-15%.
- Technical Skills: Python with PyTorch, NumPy, Matplotlib, Pandas, Scikit-learn, C++, Ubuntu Linux, Linux tools, Apt, Scripting, Git.
- Soft Skills: Teamwork, Time Management, Communication, Presentation skills.

### **Raja Ramanna Centre for Advanced Technology**

Machine Learning Intern

- Build a model with a team of three that works with a Genetic algorithm and is portable for scheduling scenarios may it be a schedule for school, employee time sheet etc.
- Designed to be flexible to any case with low time complexity compared to the existing models which were only useful in specific scenarios.
- Produced everything from scratch and published the library on PyPi.
- Technical Skills: Python with GeneticAlgorithm, NumPy, Setuptools, Wheel, Twine, Git.
- Soft Skills: Leadership, Time Management, Communication, Logical Thinking.

## **University Projects**

### The Relation between GDP and IMR

University of Leeds

- Analysing data from 1960 to 2020 and discover patterns in the data that show trends between Gross domestic product per capita, Infant Mortality rate, Literacy Rate, and Industrial Development.
- Study cross-sectional, longitudinal, and among various countries to find variations in trends and get the historical data to back up the change in the trend of our data.
- Specific case studies were traced back to trends seen in the UK and how they affected the GDP and IMR.
- Technical Skills: Tableau, Overleaf, LaTeX. .
- Soft Skills: Time Management, Teamwork, Presentation skills, Report writing.

Leeds. UK Sent 2021 - Current

Gwalior, India May 2016 - May 2020

Indore, India Apr 2014 - Apr 2016

Indore, India Sept 2020 - Aug 2021

Indore. India

Leeds, UK

Feb 2022 - Apr 2022

Apr 2020 - Sept 2020

### **IPL Analysis**

University of Leeds

- Analysing data from 2008 to 2015 to discover patterns such as trends, correlations, and probabilities.
- Finding the differences between the best teams and players in various fields, as well as their performance on the field and the opponents.
- Technical Skills: Python with Pandas, matplotlib, Seaborn.
- Soft Skills: Presentation skills, Leadership, Teamwork, Logical Thinking.

### Study of the behavior of Serial Killers

University of Leeds

Leeds, UK

- Oct 2021 Dec 2021
- Study of serial killers behavior with various motives such as convenience (did not want children or spouse), enjoyment, power, escape, or avoiding arrest.
- Finding patterns in their starting and ending ages (when they are caught) and other factors of killing, as well as how it varies with different motives.
- Technical Skills: R with ggplot2, tidyr, R Markdown.
- Soft Skills: Report writing, Logical Thinking, Critical Thinking.

### Skills\_

ProgrammingPython (Pandas, PyTorch, NumPy, Scikit-learn. etc.), R(ggplot2), PHP, C/C++, HTML/CSS, JavaScript, SQL.MiscellaneousLinux, Shell (Bash/Zsh), MEX(Overleaf/R Markdown), Tableau, Microsoft Office, Firebase, Git.Soft SkillsTime Management, Teamwork, Problem-solving, Documentation, Engaging Presentation.

## **Achievements**

2019	319/340, Graduate Record Examinations (GRE)	India
2018	Elite, DBMS NPTEL Exam	India
2018	Elite, C NPTEL Exam	India
2019	Winner, Smart India Hackathon (SIH)	India
2014	Level 3, TablaNiketan Exam	India
2014	Level 1, National Talent Search Exam (NTSE)	India

### Interests \_\_\_\_\_

Cooking	I love cooking. I am an expert in most Indian-style cooking, enjoy baking and making my own pizza.
Linux	Since 2017, I have been in love with Linux. I recently switched to Mac OS, which feels like a premium of Linux.
<b>Technical Writing</b>	I write descriptive blogs about Linux some of them are on my GitHub and Medium.
Art	I have always enjoyed drawing since I was a child. Recently, I have shifted to digital art mostly on Deviantart.
Video Games	I always had the gaming gene. I mostly play on my phone and occasionally on my switch.
Swimming	I started swimming when I was 12. Going through submerged things while holding my breath was the most exciting part.
Music	I enjoy almost all types of music may it be screamo, punk rock, bluegrass, pop, psychedelic, rap, and japanese.

### Languages\_

EnglishProfessional proficiencyHindiNative proficiencyBengaliBilingual proficiency