

Atharva Thorkar

SOFTWARE DEVELOPER · BACKEND EXPERT

IIT Kharagpur 2024

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Personal Profile

A Undergraduate student at the Indian Institute of Technology, Kharagpur. Zealous about software engineering and with 1+ years of experience specialising in Software development, python development, algorithms, cyber-security and full-stack web development. Primarily, looking for full-stack Developer/Python Developer roles.

Education

Indian Institute of Technology, Kharagpur

West Bengal, India

Aerospace Engineering

Dec 2020 - Current

- **Courses:** Programming and Data Structure, Machine Learning Foundation, NSOPDE,

Work Experience

Indian Institute of Technology

Indore, India

Software Engineer

Sept 2020 - Aug 2021

- 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

Indore, India

Machine Learning Intern

Apr 2020 - Sept 2020

- 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

Leeds, UK

University of Leeds

Feb 2022 - Apr 2022

- 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.

IPL Analysis

Leeds, UK

University of Leeds

Nov 2021 - Dec 2021

- 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

Leeds, UK

University of Leeds

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, tidy, R Markdown.
- **Soft Skills:** Report writing, Logical Thinking, Critical Thinking.

Skills

Programming Python (Pandas, PyTorch, NumPy, Scikit-learn. etc.), R(ggplot2), PHP, C/C++, HTML/CSS, JavaScript, SQL.
Miscellaneous Linux, Shell (Bash/Zsh), \LaTeX (Overleaf/R Markdown), Tableau, Microsoft Office, Firebase, Git.
Soft Skills Time 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.
Technical Writing	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

English	Professional proficiency
Hindi	Native proficiency
Bengali	Bilingual proficiency

References available upon request.