

# Atharva Parikh

 aaparikh |  aaparikh |  atharvaparikh07@gmail.com |  [Reference proofs link](#)

## EDUCATION

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2019 - 2023 **Bachelor of Technology in Information Technology** CGPA: 9.86/10.0  
At: Vishwakarma Institute of Information Technology (VIIT)  
Affiliated to: Savitribai Phule Pune University (SPPU)

## INTERNSHIPS

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**Machine Learning Engineer Intern | Laballerr** Jan 2023 - Present

- Research and develop power-efficient algorithms and models in computer vision and incorporate them in AI-enabled camera, video, AR/VR products.
- Provide assistance to product teams in the commercialization process, including optimization, performance analysis, and measurement of performance against industry standards.

**Research Intern | Technological University of the Shannon (TUS)** Aug 2022 - Nov 2022

- Worked on Robotic Process Automation and surveyed different tools currently used in the market with the objective of eliciting drawbacks. Currently writing a survey paper based on findings obtained.
- Created the algorithm that extracts data from emails and PDFs of an Irish travel management company with no word loss, outperforming the performance of other tools in the market for those PDFs.

**Data Science Intern | PhysioAI - Darwin Digitech Private Limited** Jun 2022 - Aug 2022

- Contributed towards building the main AI-based physiotherapy product of the company by implementing a human pose estimation model that performed with over 80% accuracy to classify between different poses and check movements.
- Presented the product in the final stage of the Nvidia Emerging Markets Hackathon.

**Research Assistant | VIIT - IT Department** Mar 2022 - Apr 2022

- Worked on a project affiliated with and funded by Savitribai Phule Pune University that involved the creation of a security device for human beings in critical condition.
- Collected data and created a Fuzzy Model using Matlab to demonstrate normal vs. fear conditions in humans by considering various parameters related to stress after consulting with doctors.

**Data Analyst Intern | Apna** Nov 2021 - Feb 2022

- Built dashboards using Retool, Google sheets and SQL for optimizing the workflow of internal team.
- Integrated different tools like Metabase, Plotly.js, and Twilio to create dashboards and increased usage efficiency by 18% (Saving an average of 8 minutes per dashboard)

## PROJECTS

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**ArmyPose : Validating drills using pose estimation (ongoing)** *Link to Certificate*

Affiliated with : Simulator Development Division, Government of India

- Implemented an offline human pose estimation model to automatically check the movements of drill activities such as salute, savdhan, vishram, etc. using mediapipe and flask.
- Currently working on extending the range of included activities, packaging, and shipping the product to the youth of India who aspire to serve the country.

## **AutoFis : Automatic fish detection and recognition**

*[Link to Project](#)*

Affiliated with : Smart India Hackathon 2022 - Winning product

- Created an end-to-end system to classify fish species with over 93% accuracy with the help of a one-shot learning-based classifier using the SWIN transformer.
- Designed the UI and UX of the application and took product decisions by integrating features that gave my team a competitive advantage.

## **Pairup : Find a perfect project partner**

*[Link to Project](#)*

Affiliated with : Vishwakarma Institute of Information Technology

- Created a LinkedIn profile scraper to collect student data and designed the recommendation algorithm for a React Native application that allows students and professionals to find peers in their organization for doing group-based activities.
- This copyrighted app is in process to be launched on campus with targeted userbase of 2000 students.

## **Healthcare appointment booking application**

*[Link to Project](#)*

Affiliated with : Vishwakarma Institute of Information Technology

- Created a web application, taking inspiration from the healthcare situation during COVID-19, that allows doctors to schedule appointments and do preliminary checks with their patients.
- Wrote the code for search capability using Trie data structure and managed the entire project.

## **PUBLICATIONS**

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### **Comparison of Machine Learning Algorithms for Twitter Sentiment Analysis (IEEE pub.)**

Accepted in: International Conference on Augmented Intelligence and Sustainable Systems (ICAISS).

### **Offer and Deal-Quality Prediction using Machine learning and Fuzzy approach (ACM pub.)**

Accepted in: 4th International Conference on Information Management & Machine Intelligence (ICIMMI).

**pairup - find a perfect project partner : app copyright granted**

**Application of Machine Learning in Physics** : A review article (work in progress)

**Performance analysis of RPA tools for invoice extraction:** Affiliated with TUS (work in progress)

## **ACHIEVEMENTS**

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**Finalist:**           **Techgium (ongoing)**

Proposed a solution for a vision-based solution for Cognitive Quality Inspection in Manufacturing operations

**Winner:**           **Smart India Hackathon (SIH) 2022**

Created an app for INCOIS to detect and classify fish species with over 93% accuracy.

**Finalist:**           **Aatmanirbhar Bharat Hackathon**

Proposed POC for an embedded device which uses IoT and ML to predict the quality of milk by checking adulteration

## **SKILLS**

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Programming:   Python, Tensorflow, PyTorch, Pandas, NumPy, Scikit-learn, C++, Java, SQL.

Miscellaneous:   Linux, Shell (Bash/Zsh), L<sup>A</sup>T<sub>E</sub>X(Overleaf), Tableau, MS Office, Firebase, Flask, Git.

## **COURSE CERTIFICATIONS**

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Professional Certificate : IBM Data Science

Specialization Certificates : Python 3 Programming | Statistics with Python | Excel Skills for Business

## **EXTRACURRICULARS**

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**Organisations** : Research head(OIR VIIT), Head Treasurer(ITSF VIIT), Core committee(ML Forum VIIT)

**Sports** : Kick Boxing National Level, Table Tennis State Level | **Music** : 4 Levels of certification of Tabla

**Volunteering** : Campus Ambassador for GradsKey, an AI/ML based Skilling Platform as a Service (SPaaS)