Atharva Patil

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Introduction

Computer Science major currently pursuing a bachelor's degree at S.R.M Institute of Science and Technology. Attempting to successfully build extraordinary projects with teams of people by leveraging proven creative thinking, multitasking, and technical skills. I frequently receive accolades from my colleagues for my diligence, and I can be counted on to meet the established objectives. Keep a watch out because I routinely post new projects on my github.:

Skills Summary

- **Languages**: Python, C, C++, JavaScript, LaTex
- **Frameworks**: Scikit learn library, TensorFlow, Keras, NodeJS, MERN, Pandas, PyTorch
- **Tools**: GIT, MySQL, Figma, Canva, Microsoft Office, Excel, Powerpoint
- **Platforms**: Linux, Web, Windows, Arduino, Raspberry, NodeMCU, Matlab(basics)
- **Soft Skills**: Leadership, Event Management, Writing, Public Speaking, Time Management

Experience

- **Intel AI for Youth Mentor** — Remote
  Machine Learning Mentor (Internship) — *April 2022 - ongoing*
  - **Helping people build understanding for ML**: I conducted online and offline technical & soft-skills training affecting over 3000 students, teaching and educating them about machine learning and computer vision so they may construct their own projects.
  - **Mentoring at physical events**: Facilitated hands-on learning and assisted others with bugs and problems in Python projects (including various libraries)

- **Head at Next Tech Lab** — Chennai, India
  Leading a lab with amazing talent in the field of IoT and computer vision — *Aug 2021 - Present*
  - **Heading a completely independent student run lab at my college**: Here, creative minds from many different fields converge to develop cutting-edge technologies and novel solutions. We are completely self-sufficient, and we use hackathon winnings and accolades to upgrade our lab.

- **Associate Technical Lead at The Project Team** — Chennai, India
  Organized events, conducted workshops and participated in various hackathons (IoT, Machine Learning) — *Aug 2021 - Present*
  - **Major Projects**: We work on IoT and machine learning projects here, which are fixes for issues in the real world. We create projects to deploy and learn new technologies since we think that learning should be done through building.

- **Intern at Samsung Research and Development** — India
  Build Research Project and work with Samsung Mentors (IoT, Network Protocols) — *Dec 2022 - Present*
  - **Role**: Working on implementing complex network and software update protocols in IoT systems and basic Arduino applications.

- **Associate Lead of Business Domain at Official Mozilla Club** — India
  Work with the team to bring in sponsors and build on business ideas (Sponsorship, Business) — *April 2021 - May 2022*
  - **Role**: Working for the club and its business needs to manage multiple events throughout the year and handling one of the biggest technical event held on campus.

Projects

- **Smart discounts using Linear Regression (Machine Learning, Pandas, pylab, scipy)**: created a clear explanation of how linear regression operates and the various applications for it. used this to demonstrate the operation of smart discounts. Also described is how to identify parameters that accurately suit the model one is building. (June '22)
- **Credit Card Fraud Detection System (CyberSecurity, Logistic Regression, Machine Learning)**: Created an AI model to detect Credit Card Frauds using logistic regression. Tech: Python, numpy, pandas & sklearn. (August '22)
- **FarmStack (FastAPI, React.js, Web Development)**: A fullstack project made to display the usage of FastAPI and how it integrates with React.js and MongoDB. Tech: JavaScript, Python, Json (July '22)
- **Automatic MCQ Question Generation using Machine Learning (Natural Language Processing, Wordnet, Conceptnet, Word Vectors)**: An Automatic MCQ Question generation model built to generate MCQ questions automatically based on given text. Tech: Python, T5 transformers (August '22)
- **Object Detection for 80 different objects (Machine Learning, Computer Vision)**: Created a model to detect about 80 different objects in live video feeds or pre-recorded videos. Tech: Python, OpenCV (June '22)
- **Live Location Tracker for Shuttle Bus (IoT, App Development)**: A collaboration project with a fellow peer with the knowledge of Flutter App development to develop an Live Location Tracker for buses in our college campus. Data stored and updated on cloud to provide bus timings to users. Tech: Python, Raspberry Pi, Firebase, Flutter (June '22)
- **Smart Home System using Node MCU(IoT, App Development)**: In this IoT based project,I made a Home Automation project using NodeMCU and Blynk App. The circuit is very simple to control and used to control home appliances securely from the smartphone through the internet. Tech: NodeMCU, Blynk App and relay module (Jan '22)

Publications

- **Research Paper: Trustworthy Artificial Intelligence in Cancer Diagnosis (Computer Vision, CNN)**: A Work in Progress research paper under a professor which is to be presented at a conference in mid 2023. Tech: Python, Image processing, OpenCV, Neural Networks (August '22)

Education

- **SRM Institute of Science and Technology** Tamil Nadu, India
  Bachelor of Technology - Internet of Things; GPA: 9.62 *September 2020 - June 2024*
  Courses: *Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases*

Major Courses Completed

- **Major Courses I have Completed as a part of my undergraduate degree:**: Operating Systems, Design and Analysis of Algorithms, Advanced Programming Practices, Computer Networks and Computer Communications. Tech: Python, C, C++ (August '22)
- **Certifications:**: Official Certification from Nvidia for working with IoT devices and MATLAB (July '22)

Honors and Awards

- Awarded Academic Scholarship - Jan, 2022
- Awarded top contributor in the Girl Script Winter of Contribution open source program - November, 2021