

# Rahul Pachar

+91-7015686869 | Pune, India

✉ [rahulpachar0786@gmail.com](mailto:rahulpachar0786@gmail.com) | [🌐 linkedin.com/in/rahul-pachar](https://www.linkedin.com/in/rahul-pachar) | [🐙 github.com/rahul001pachar](https://github.com/rahul001pachar) | [🌐 rahulpachar.in](https://rahulpachar.in)

## EXPERIENCE

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### Associate Software Engineer

Jul 2023 - Present

*Altysys Technologies*

*Pune, MH*

- Designed powerful, NLP-driven chatbots for Novartis and FDB utilizing AzureOpenAI, Langchain, Llama-index, data pipelines (Snowflake, FastAPI, Pandas, PostgreSQL) which is experienced in leveraging advanced language processing techniques to derive valuable information from diverse datasets
- Crafted the UI's using StreamLit and MERN stack, engineered prompts and fine-tuned models, boosting accuracy. Benchmarked and extracted insights from both structured and unstructured data.

### Machine Learning Engineer in Research

Jan - Apr 2022

*Jaypee Institute Of Information Technology*

*Noida, UP*

- Designed and developed several ML models using Supervised Machine Learning, Deep Learning, Python and C++ accurate to over 90%
- Optimized model behaviour using MIT findings for respiratory diseases and additional datasets.

### Software Developer Intern

Jun - Nov 2022

*X.Args*

*Remote*

- Developed and maintained UI's using React.js, HTML, CSS, and JavaScript
- Re-developed existing UI of X.Args and solved multiple bugs. Enhanced user experience 2x through interactive elements and responsive design

## EDUCATION

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### Jaypee Institute of Information Technology

Noida, India

*Bachelor of Technology in Information Technology. CGPA - 7.1*

*Jul 2019 - May 2023*

### St.Mary's School

Hisar, India

*Higher Secondary (Class XII) in CBSE Board. Percentage - 87.3%*

*Apr 2016 - Mar 2018*

## PROJECTS

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### Edu-Track | *A comprehensive Full-stack web application for potent school management system*

Jan - May 2023

- Created a School Management System using the MERN stack, that facilitates efficient management of various school-related tasks, including student and staff information, attendance tracking, academic performance monitoring, fee management, and communication between teachers, students, and parents.

### DetectNow | *A Disease Predictor App utilizing a Supervised ML Algorithm*

Jan - Mar 2021

- Created a system accurate to 88% which can predict respiratory diseases using a set of symptoms and patient metrics as input using React, Php, Javascript and NodeJs
- Launched front end functionalities to display visual representation of data collected and results achieved

## TECHNICAL SKILLS

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**Programming Languages:** JavaScript, C, C++, Java, Python, HTML5, MySQL

**Frameworks:** Angular, ReactJs, Next.js, SpringBoot, Node.js, Flask, ChromaDb, StreamLit, AWS S3

**Libraries:** Tailwind, Bootstrap, JQuery, Redux, Transformers, Langchain, LLama2

**Tools:** AzureOpenAI, FastAPI, AWS SageMaker, Snowflake, Squid.AI, PostgreSQL, Git, Unix

**Additional Skills:** Data Analytics, Algorithms, Data Structures, Ethical Hacking, Machine Learning, Fine Tuning

## CERTIFICATIONS

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### Coursera

*Foundations of Cybersecurity*

*May 2023*

- Demonstrated networks, devices, and data from unauthorized access and cyberattacks, identify common risks, threats, vulnerabilities and techniques to mitigate them