

Arpit Singh Gautam

AI RESEARCHER @ RENIX INFORMATICS | EX-RESEARCH INTERN @ IIT (BHU) | EX-APPRENTICE @ IBM Z SYSTEMS | MUJ WIZARD PROGRAMMER

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Personal Profile

I'm a passionate individual in the field of Artificial Intelligence and Machine Learning, constantly seeking to enhance my expertise through course-work and independent projects. With 5 completed internships, I'm currently working as an AI Research Intern at Renix Informatics. I've won 6 hackathons, including 3 international ones, and have been involved in over 14 projects, with 7+ being end-to-end solutions. My ultimate aim is to create innovative solutions that bring about positive change in the world.

Professional Experience

AI Research Intern

Renix Informatics

Remote

August 2023 - Ongoing

- Researching and implementing new features for the product.
- Extensively working on the Document AI.
- Technical Skills:** Large Language Models (LLM) · Optical Character Recognition (OCR) · Natural Language Processing (NLP) · Deep Learning · Streamlit · Image Processing · Python

AI/ML Developer Intern

WictroniX

Remote

June 2023 - August 2023

- Contributed to AI/ML Advance Team, driving innovation and technological advancements.
- Led a group of mentors in guiding and mentoring more than 30 interns in the field of AI and ML.
- Technical Skills:** Drone Footage Analysis · YOLO Model · Machine Learning · Deep Learning · Python

Research Intern

Indian Institute of Technology (Banaras Hindu University)

Varanasi

June 2023 - July 2023

- In the process of developing a novel hybrid model for hyperspectral imaging classification.
- Completed the Research Project : Classification in Hyperspectral Imaging using Hybrid Deep Learning Models.
- Technical Skills:** Hyperspectral Imaging · Active Learning · Transfer Learning · Deep Learning · Machine Learning · Python

AI/ML Apprentice

IBM Z Systems

Remote

January 2023 - June 2023

- Developed and executed end-to-end two machine learning projects (Omnizenon & KnowCrimez).
- Applied ML techniques to enhance data analysis and deployed web user interface for seamless model interaction and result visualization.
- Successfully contributed to the development of innovative solutions in collaboration with a seasoned team at IBM.
- Technical Skills:** Machine Learning · Exploratory Data Analysis · PowerBI · MLOps · Python

Machine Learning Intern

Suvidha Foundation

Remote

March 2023 - April 2023

- Analysed Abstractive Text Summarization and looked into ways to make it more accurate.
- Worked with hugging face Transformers and evaluated the accuracy of several LLMs.
- Technical Skills:** Natural Language Processing (NLP) · Deep Learning · Machine Learning · LLMs · Python

Backend Developer Trainee

Safcurl. (Upcoming Startup)

Remote

July 2022 - January 2023

- Completed Jira tickets by building models, implementing APIs, and maintaining the database with efficient code and GitHub version control.
- Collaborated with cross-functional teams to deliver quality solutions through model building, API implementation, and database maintenance.
- Technical Skills:** Python · Django · Rest APIs · Postman · Git · Github · Jira

Education

Manipal University Jaipur

B.Tech (Hons) with specialization in Artificial Intelligence and Machine Learning)

Jaipur, Rajasthan

2021 - 2025

- CGPA** | 8.41
- Awarded the title of "MUJ WIZARD PROGRAMMER".
- Created the Official Website for the Department of AI & ML.

St. Joseph's Convent School

Secondary Education (Class 10th-12th)

Varanasi, India

2019 - 2021

- Class 12** | Percentage: 85.2 % (Computer: 94/100)
- Class 10** | Percentage: 81.5 % (Computer: 97/100)
- Excelled in various Olympiad competitions, showcasing exceptional talent and achieving victories in three distinct events.
- Completed the intensive Life Training for Leaders program in Indore, acquiring essential leadership skills and fostering personal growth.

Leadership

IBM Z Systems

Remote

IBM Z Ambassador

August 2023 - Ongoing

- Collaborate with international IBM ambassadors to expand my outreach and promote mainframe technology to a wider audience.
- Explore the practical application of emerging technologies like Machine Learning & Data Analytics on the IBM Z platform.
- Acquire official technical certifications, showcasing proficiency in mainframe technology.

Streamlit

Remote

Student Ambassador Leader

April 2023 - Ongoing

- One of the 10 individuals chosen among 216 Student Ambassadors to serve as the Student Ambassador Leader.
- Work closely with the Streamlit team to provide feedback, share insights, and contribute to the improvement of the Streamlit platform.
- Continually learn new things and keep up with Streamlit's newest features, use cases, and best practises.

College Leadership Positions

Jaipur, Rajasthan

Deputy Head of design & Working Member

June 2022 - July 2023

- **Phi Phenomenon MUJ**: Lead design projects and delegated tasks to other designers.
- **CodeChef MUJ Student Chapter**: Provided & Solved Daily Questions in Social Media Groups.

Projects

KnowCrimeZ & Omnizenon

Remote

IBM Z Systems

Jan - June 2023

- **KnowCrimeZ**: A crime forecasting and analysis app which provide insights into crime trends and make forecastings using historical crime data.
- **Omnizenon**: A productivity-boosting app that predicts employee promotions and performs analysis to enhance workforce management.
- **Tech Stack**: Machine Learning · Exploratory Data Analysis · PowerBI · MLOps · Python

Recipe Genie Pad

Remote

Bon Hacketit Hackathon

April 2023

- Created a Streamlit webapp which identifies the entered dish and provides the links to videos & articles on how to prepare it.
- Automated searching for the dish on food delivery platforms. just click a button and let the app do the work for you.
- **Tech Stack**: Python, Computer Vision, CNN, Streamlit, selenium

MUJ Attendance 2.0

Jaipur, India

T-Hunt Hackathon

Jan 2023

- Created a Advanced AI Attendance System
- Taking attendance of students with just a hover of a mobile
- **Tech Stack**: Python, Face Recognition, Computer Vision, IP Hosting.

Other Projects

Remote

- **StreamlineScanX**: Advanced document OCR and analysis tool.
- **Buddy**: Help users identify and learn about various objects.
- **Demand Forecasting**: Developed a SARIMA model to predict future demand patterns on a universal dataset.
- **OS Scheduling Algorithms**: Simulate different scheduling algorithms.
- **Face Scrambler**: Blur faces in real-time video streams.
- **Sign Language Detection System**: Provides a simple and effective way to recognize hand signs in real-time video feeds.
- **Face Recognition System**: My first project, simple Face Rec system.

Awards

Sept 2023 **Student Excellence Award**, Manipal University Jaipur

Jaipur

April 2023 **Winner - 3rd Rank**, Bon Hacketit Hackathon

International

March 2023 **Winner - 2nd Rank**, Mini Hacks 3.0 Hackathon

Jaipur

Feb 2023 **4th Rank**, The Latest Cut Hackathon

International

Jan 2023 **Winner - 1st Rank**, T-Hunt Hackathon

India

Nov 2022 **Winner**, Panacea Clone Wars

India

Oct 2022 **2nd Runnerup for best use of IBM zSystems**, SacHacks IV Hackathon

International

Skills

Programming Python, C, Java, SQL, Libraries: Pandas, Django, Tensorflow, PyTorch, NumPy, Scikit-learn, etc.

Miscellaneous Tableau, PowerBI, Gira, REST APIs (Postman), Git, Linux, kail, Shell.

Soft Skills Adaptability, Time Management, Teamwork, Leadership, Problem-solving, Critical Thinking, Engaging Presentation.