Arpit Singh Gautam

Ex-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. Have successfully completed six internships, the most recent of which was my AI Research Internship 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. I was also recently invited to talk at the IBM Z Day Conference and the IBM Z Datathon. My ultimate aim is to create innovative solutions that bring about positive change in the world.

Professional Experience

AI Research Intern
Remote

Renix Informatics
August 2023 - October 2023

- Researched and Implemented new features for the DocX product, including Auto-filling Forms and Key Value Pairing.
- Analyzed and cleaned the legacy code of the DocX product using SonarQube for enhanced code quality and maintainability.
- **Technical Skills:** Python · Deep Learning · NLP · Large Language Models (LLMs) · OCR · Image Processing · Streamlit

AI/ML Developer Intern
Remote

WictroniX
June 2023 - August 2023

- Using drone footage, I contributed to AI/ML Advance Team modules such as lane detection, speed estimation, and leader-follower identification.
- 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
Varanasi

Indian Institute of Technology (Banaras Hindu University)
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
Remote

IBM Z Systems
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
Remote

Suvidha Foundation
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
Remote

Safcurl. (Upcoming Startup)
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
Jaipur, Rajasthan

B.Tech (Hons) with specialization in Artificial Intelligence and Machine Learning
2021 - 2025

- **CGPA |** 8.41
- Awarded the title of "MUJ WIZARD PROGRAMMER".
- President and Founder of the AIML Community | The official community of the Department of AI & ML.

St. Joseph's Convent School
Varanasi, India

Secondary Education (Class 10th-12th)
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.

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.

AIML Community
Jaipur, Rajasthan

President & Founder
September 2023 - Ongoing

- Co-founded AIML Community at MUJ with Varun sir, emphasizing a collaborative and learning-focused environment for AI enthusiasts.
- Promoting growth and enrichment of AI/ML understanding at the college by enabling active interaction, discussions, and knowledge sharing.

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.

Achievements

Oct 2023	**Speaker at IBM Z Day Conference and IBM Z Datathon**, IBM	*International*
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.