Arpit Singh Gautam

arpitsinghgautam777@gmail.com | arpitsinghgautam.me | github.com/arpitsinghgautam | linkedin.com/in/arpitsinghgautam

Professional Experience

Renix Informatics, *AI Research Intern* | Remote　　　　　　　　　　　　　　　　　*Aug 2023 - Oct 2023*
- Researched and Implemented new features for the DocX product, including Auto-filling Forms and Key Value Pairing.
- Used SonarQube to analyse and address 276 code smells, 6 vulnerabilities, 2 security hotspots, and 28 bugs in the older DocX code.
- Technical Skills: Python · Deep Learning · NLP · Large Language Models (LLMs) · OCR · Image Processing · Streamlit

Indian Institute of Technology (BHU), *Research Intern* (Prof. Rajeev Srivastava) | Varanasi, India　　*Jun 2023 - Jul 2023*
- Led groundbreaking Hyperspectral Image classification project, leveraging hybrid deep learning models for remarkable results.
- Consistently ranked in the top three out of approximately 10 peers, excelling in a competitive research internship program.
- Technical Skills: Hyperspectral Imaging · Active Learning · Transfer Learning · Deep Learning · Machine Learning · Python

IBM Z Systems, *AI/ML Apprentice* | Remote　　　　　　　　　　　　　　　　　　*Jan 2023 - Jun 2023*
- Developed and executed end-to-end two machine learning projects (Omnizenon & KnowCrimez).
- Applied ML techniques, achieving 95.91% accuracy, and deployed a Web UI for seamless model interaction and result visualization.
- Technical Skills: Machine Learning · Exploratory Data Analysis · PowerBI · MLOps · Python

Other Internships and Leadership roles, Remote
- **AI/ML Developer Intern** @ WictroniX | **Backend Developer Trainee** @ Safcurl.
- **IBM Z Ambassador** @ IBM | **Student Ambassador Leader** @ Streamlit | **President & Co-Founder** @ AIML Community

Education

8.41/10	**BTech in Computer Science (Hons), specialization in Artificial Intelligence & Machine Learning,** *Manipal University Jaipur*	Jaipur, India	*Oct 2021- Jul 2025*

Skills

Programming	Python (TensorFlow, Pytorch, Keras, Pandas, Scikit-learn, OpenCV, NLTK, spaCy, Django, Flask, Streamlit), C, Java, SQL.
Software	Tableau, PowerBI, HuggingFace, Jira, Postman, Git, Github, Linux, Docker, Scripting.

Projects

NOCODESK　　　　　　　　　　　　　　　　　　　　　　　　　　　　*Nov 2023 - Nov 2023*
Winner @ SacHacks V
- Engineered a cutting-edge educational platform, NOCODESK from the ground up without using AutoML libraries, with the main goal of simplifying AI and ML ideas for students.
- Implemented interactive features for data preprocessing, exploratory data analysis, model selection, training, and evaluation, providing a user-friendly interface for users to enhance their machine learning skills.
- Tech Stack: Python, Streamlit, ML Libraries, Exploratory Data Analysis (EDA)

Recipe Genie Pad　　　　　　　　　　　　　　　　　　　　　　　　　*Apr 2023 - Apr 2023*
Winner @ Bon Hacketit
- Developed a Web app on Streamlit that recognises the cuisine input and offers links to articles and videos explaining how to prepare it. It also performs automated searches on food delivery services to find the dish.
- Utilized the Xception model pre-trained on ImageNet to build a dish detection model with accuracy of 84%.
- Tech Stack: Python, Computer Vision, CNN, Streamlit, Selenium

MUJ Attendance 2.0　　　　　　　　　　　　　　　　　　　　　　　　*Jan 2023 - Jan 2023*
Winner @ T-Hunt
- Spearheaded the development of an advanced attendance tracking system, employing AI-based face recognition technology.
- Simplified attendance management, featuring automated notifications, real-time tracking, enhancing operational productivity.
- Tech Stack: Python, Face Recognition, Computer Vision, IP Hosting.

More Projects
Completed as Individual, and Academic Projects
- **KnowCrimeZ** (crime forecasting and analysis app) & **Omnizenon** (employee productivity-boosting app): done under IBM SMEs.
- **StreamlineScanX**: Advanced doc OCR & analysis tool, **Demand Forecasting**, **Buddy**: AI assistant, **OS Scheduling Algorithms**
- **Face Scrambler**: Blur faces in real-time video streams, **Sign Language Detection System**: Recognizes hand signs in real-time.

Achievements

Nov 2023	**Winner - Best use of IBM Z**, SacHacks V Hackathon	*International*
Oct 2023	**International Conference Speaker**, IBM Z Day	*International*
Oct 2023	**International Hackathon Speaker**, IBM Z Datathon	*International*
Sep 2023	**Student Excellence Award**, Manipal University Jaipur	*Jaipur*
Apr 2023	**Winner - 3rd Rank**, Bon Hacketit Hackathon	*International*
Mar 2023	**Winner - 2nd Rank**, Mini Hacks 3.0 Hackathon	*Jaipur*
Jan 2023	**Winner - Gold Medal**, T-Hunt Hackathon	*Jaipur*
Nov 2022	**Winner - 1st Rank**, Panacea Clone Wars	*India*
Oct 2022	**Best use of IBM Z**, SacHacks IV Hackathon	*International*