

MOYANK GIRI

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Preferred Work Location: Bengaluru, India

Open to Remote Full-time Opportunities

Date Modified: 29th May 2024

SCHOLARSHIP

- MRD Scholarship - 2nd,3rd, 4th and 6th Semester (Top 20% in PESU)
- Distinction Award - 1st,5th Semester (SGPA > 7.0)
- Coding Ninjas: CodeKaze with Cash reward for College Rank 3

EXTRA CURRICULAR ACTIVITIES

- Inter-IIT Tech Meet: Student Academic Conference 2023 (Research Paper Poster Presentation)
- Subject Matter Expert (SME) for course titled "Data Exploration, Analysis and Visualization" at PESU IQ, PES University
- PES Innovation Lab: Roadshow
- PES Innovation Lab: HashCode - Organiser and Panellist
- Coursera Machine Learning Course - By Andrew NG, Stanford University

PERSONAL DETAILS

- Age: 22 Years (DOB: 26-09-2001)
- Address: E-53/6, DRDO Township, Phase 2, CV Raman Nagar, Bangalore - 560093, Karnataka, India
- Fathers Name: Mr. Sukanta Kumar Giri
- Passport(India) - Available
- PAN Card - Available
- Driver's License - Available

EDUCATION

M.Tech: IIT Bhilai in Data Science & Artificial Intelligence (2023 - 2025)

- CGPA: 9.12/ 10 (Till 2nd Semester), Date of Completion of M.Tech: June 2025
- Relevant Courses:** Machine Learning, Adversarial Machine Learning, Advanced Data Structure & Algorithm, Parallelization of Programs, Computer System Design, etc

B.Tech: PES University in Computer Science & Engineering (2019 - 2023)

- CGPA: 9.0 / 10 with Specialization in "Machine Intelligence and Data Science"
- Relevant Courses:** Machine Intelligence, Database Management System, Computer vision and Image processing, Data analytics, Statistics for Data Science, Data structures and its applications, Cloud Computing, Automated Information Retrieval etc

PUC and 10th: Marks (90.6% and 10/10) , Passout (2017 and 2019)

TECHNICAL SKILLS

Programming Languages: Python, R, MATLAB, C, Java

Tools and Databases: Docker, Kubernetes, AWS, Prometheus, Grafana, Hadoop, Spark, Kafka, Storm, PostgreSQL, MongoDB, Qdrant VectorDB, Hive, Linux

Python Libraries: HuggingFace, PyTorch, Tensorflow, SKLearn, LIME, OpenCV, FastAPI, Matplotlib, Pandas, NumPy, Transformers

DL/ML Techniques: Computer Vision, NLP, Advanced RAG, Split Learning, Federated Learning, Generative AI, LLM, Explainable AI, CNN, LSTM/RNN, Distributed Deep Learning

EXPERIENCE (1.5+ YEAR)

1. At IIT Bhilai as Researcher and Teaching Assistant

6+ Months, Part-time, Onsite, Paid (Aug 2023 - Present)

Researcher at Sigma-Cubed Lab (S3 Lab)

- Technical Skills:** Auto-encoder, ResNet18, ImageNet, LLM, NLP, Vector Database, Advanced RAG, Distributed Deep Learning, Python Libraries such as Pytorch, Matplotlib, etc
- Summary:** Creating an **Efficient Split Learning Architecture** to reduce communication and address the issue of "Out-of-Order Distribution"
Creating an **Efficient Advanced RAG** retrieval system for Finetuning LLM for network troubleshooting using open-source efficient models and self-hosted databases

Teaching Assistant for Big Data Analytics Lab

- Technical Skills:** Hadoop, Hive, Spark, Storm, Kafka, Docker, AWS, Python, Java etc
- Summary:** Configured and Validated Big Data Environments on AWS and Conducted Tutorials, Hands-on Lab Sessions on Big Data Technologies

2. At Hewlett Packard Enterprise (HPE, R&D, India) as Intern

6 Months, Full-time, Onsite, Paid (Jan 2023 - July 2023)


- Converted to Full Time Employment** with 17.5 LPA CTC
- Technical Skills:** Python Libraries such as threading, ThreadPoolExecutor etc

LANGUAGES

Speak, Read, Write:
English, Hindi


- Summary: Developed an End-to-End workflow using Python in HPE Storage framework to optimize execution time which resulted in more than 70% improvement.

3. At Muxable Labs USA (India) as Summer Intern

 2 Months, Full-time, Remote, Paid (June 2022 – July 2022)


- [Converted to Full Time Employment](#) with Rs 13.2 LPA + RSU of 10,000\$
- Technical Skills: Golang, Wireshark
- Summary: Implementation of CMT-SCTP protocol following IETF Specifications for Video streaming with minimum loss and latency.

4. At Hewlett Packard Enterprise (HPE, R&D, India) through HPCTY Program (from Cloud Computing and Big Data Club of PES University) as Intern

 6 Months, Part time, Hybrid mode (Feb 2022 – July 2022)

- Technical Skills: Docker, Kubernetes, AWS, Prometheus, Grafana, gRPC, Python
- Summary: To Build a Always Observable Cloud Application on AWS to monitor and analyze the application-level and service/POD level metrics, and generate alerts.

5. "Neural Music - Generation and Analysis" Internship at PES Innovation Lab

 2 Months, Full time, Remote, Paid (May 2020 - July 2020)

- Technical Skills: RNN, LSTM, Python Libraries such as Music21, TensorFlow etc
- Summary: Created a model for generating backing tracks from lead input or lead tracks for chosen chord progressions

PUBLICATIONS

1. Journal: [Automated and Interpretable Fake News Detection with Explainable Artificial Intelligence](#) (Journal of Applied Security Research 2024)

- Study makes use of Ensemble model and CNN Model to detect fake news which comprises of text and/or images and explains the prediction with XAI (1st Author)

2. Conference: [Enhancing Safety in Vehicles using Emotion Recognition with Artificial Intelligence](#) (I2CT IEEE Conference 2023)

- Study makes use of deep learning models (CNN Models) for automatic emotion detection from multimodal sources, including audio and video. (1st Author)

ACADEMIC/OTHER PROJECTS

1. "Adobe Behaviour Simulation Challenge" Inter-IIT Tech Meet 2023

Skills: Large Language Models, Python Libs such as Tensorflow, HuggingFace etc

2. "Automated Tailgating Detection System" VMWare: Virtual Hackathon

Skills: MobileNetSSD, Object Tracking, Python Libraries such as OpenCV, imutils etc

3. "Company 360: A Deep Learning Approach for a complete analysis of companies"

Skills: LSTM, Transformers, Python Libraries such as HuggingFace, Transformers etc

4. "Pattern analysis and Ambiguity detection for dataset" Real - Time Project

Skills: Python Libraries such as Pandas, Matplotlib etc

5. Credit Card Customer Churn Prediction

Skills: Machine Learning models such as Random Forest, AdaBoost, SVM etc

6. "Lifestyle Management Application" Android App

Skills: Java, Android, FireBase etc

7. Campus Food Delivery System

Skills: Docker, AWS, FastAPI, Android etc