NAMAN PRIYADARSHI

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ABOUT

Currently a senior at Cluster Innovation Centre, University of Delhi, pursuing a major in Information Technology and Mathematical Innovation. My major areas of interest include data science, machine learning, computer vision, and natural language processing.

EDUCATION

Bachelor of Technology (Information Technology and Mathematical Innovation)　　　Expected 2024
Cluster Innovation Centre, University of Delhi

Relevant Coursework: Operating Systems, Data Structures, Partial Differential Equations, Ordinary Differential Equations + Practicum, Artificial Intelligence, Complex Analysis and Group Theory, Networking, Databases, Linear Algebra + Practicum

SKILLS

Languages	Python, C, C++, R, Kotlin, Dart
Frameworks	scikit-learn, PyTorch, flutter, mkdocs, GH actions
Tools/Platforms	Linux, Windows, Android, Google Cloud, Firebase
Databases	Firestore, HiveDB, MongoDB, MySQL

EXPERIENCE

SoSy-Lab, Ludwig Maximilian University of Munich　　　June 2023 - August 2023
Open-source Software Development Intern　　　*Remote*

- Modernizing tests in BenchExec (A Framework for Reliable Benchmarking and Resource Measurement)
- The project proposes to migrate the testing framework of BenchExec from nose to pytest, incorporate pytest into the codebase, and increase overall coverage of the software.
- Keywords: Python, pytest, GitHub CI/CD, Open-source software

iGurus Consultancy Services LLP　　　July 2022 - Sept 2022
NLP Research Intern　　　*Remote*

- Project proposed a new hybrid approach of fusing Encoder-Decoder Architecture with an Attention Mechanism to provide Hindi to English Machine Transliteration.
- Keywords: Natural Language Processing, PyTorch, Machine Learning, Python

SimplyLocal, Wabitech　　　July 2021 - Sep 2021
App Development Intern　　　*Remote*

- Research, analysis, and testing to create functional, secure, and user-friendly software application.
- Keywords: Android, Kotlin, Firebase, TestComplete

PUBLICATIONS

*Co-First Authors

Anjani Kumar, Ojus Kumar*, Harsh Kumar*, **Naman Priyadarshi***. An Accuracy Improvement in Facial Verification through Siamese Neural Networks. Journal of Image Processing Pattern Recognition Progress. 2023; 10(2): 1–9p.

PROJECTS

ForMente Using Natural Language Processing, ForMente lets you diagnose your feelings in the form of a secure personal diary. The NLP model is deployed on Heroku using FastAPI, and the app uses Firebase and Firestore as its backend.
Tech: Natural Language Processing, Flutter, Dart, FastAPI, Python, Firebase, Firestore, Heroku, GitHub Actions
(Github Repository)

Detection and Quantification of Feminist and Sexist Content on Social Media In this project we aimed to understand and analyze how sexism, from explicit hate or violence to subtle expressions, is expressed in online conversations.
Tech: Python, Natural Language Processing, Sentiment Analysis, Data Scraping, Data Analysis (Project Report)

riemapp: a Python library for visualising complex mappings A statically typed Python 3.7+ library that provides aliases for core manim (Mathematical animation engine Python library) geometries and exposes manim's internal APIs programmatically to create precise and smooth complex mappings.
Tech: Python, Python Packaging, GH Actions, mkdocs, manim (GitHub Repository)

Chaotic Encryption The focus of our project was to encrypt and decrypt an image using the Lorenz chaotic system.
Tech: Python, ODEs, Encryption-Decryption, Pseudo-Random Number Generator, Matplotlib (GitHub Repository)

EXTRA-CURRICULAR ACTIVITIES

- Winner - Asus ROG Showdown Series CSGO 1v1 2023 Delhi, India

- Winner - Asus ROG 1v1 Showdown CSGO Delhi, India - September, 2022

- Winner - Asus ROG 1v1 Showdown CSGO Uttar Pradesh, India - September, 2022

LANGUAGES

- English (Fluent), Hindi (Mother Tongue)