

# NAMAN PRIYADARSHI

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## ABOUT

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

## EDUCATION

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**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

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

## EXPERIENCE

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**INTERN - Modernizing tests in BenchExec (A Framework for Reliable Benchmarking and Resource Measurement)** June 2023 - Current  
Ludwig Maximilian University of Munich *Remote*

- 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

**INTERN - Research and Analytics in Data Science (ML, AI and NLP)** July 2022 - Sept 2022  
iGurus Consultancy Services LLP *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

**INTERN - App Development, Testing and Analysis** July 2021 - Sep 2021  
SimplyLocal, Wabitech *Remote*

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

## PROJECTS

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**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](#))

**Facial Verification using Siamese Neural Networks** This research paper proposed a new hybrid approach of fusing Siamese neural networks with one-shot learning for Face verification tasks.

Tech: Python, Convolutional Neural Networks, Triplet loss function, Image augmentation, PyTorch ([Research Paper](#))

**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 is 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

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- 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

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- English (Fluent), Hindi (Mother Tongue)