

Shaleen Malik

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EDUCATION

Indian Institute of Technology, Bhilai

BTech in Data Science and Artificial Intelligence; CGPA: 8.71

2020 – 2024(Expected)

Delhi Public School, Vasant Kunj

Higher Secondary, CBSE Board; Percentage: 93.8%

2017 – 2019

WORK EXPERIENCE

Unistring Tech Solutions

Hyderabad

Embedded Software Intern (AI Research and Development) [OpenAI, PyQt, Python]

May 2023 – July 2023

- Developed an application with OpenAI API and PyQt to convert SysML flow diagrams into functional code.
- Designed notations for Qt front-end developers to facilitate application code generation and parameter handling.
- Testing revealed up to 65% reduction in development time in 8 out of 10 cases.

National Informatics Centre

Chhattisgarh

ML Intern [Python, Statsmodels, Sklearn, Plotly, Dash]

May 2022 – Jul 2022

- Worked with Chattisgarh's paddy procurement data of over 7 years to draw district specific conclusions.
- Analyzed trends and detected anomalies in the data by using time series and clustering concepts.
- Developed an interactive dashboard using Plotly and Dash for automated analysis and report generation.

IIT Bhilai Innovation and Technology Foundation

Chhattisgarh

Research Fellowship [Pyhton, Neo4j, Plotly, Dash]

Feb 2022 – Aug 2022

- Problem researched: Detecting Money Laundering via Graph Neural Networks
- Analyzed Bitcoin network graphs using Neo4j and built an interactive Dashboard to track node behavior.
- Explored Graph Convolutional Networks and implemented various graph algorithms like Parallel BFS and Dijkstra to gain deeper insights into the huge network's characteristics.

PROJECTS

Response Generation for Pandemic-Related Queries | [Github](#)

- Referred the problem and dataset released by NIH to generate query responses and suggest follow-up questions.
- Employed BM25 and BERT models to rank sentences and generate meaningful answers in 14 out of 15 cases.

Medical Diagnosis Application | [Github](#)

- Gathered and parsed data from thesaurus.com with BeautifulSoup to create suitable dataset.
- Trained a Decision Tree classifier on this dataset for predicting diseases from user-provided symptoms.
- Crafted a PyWebIO app to offer disease diagnosis along with descriptions and potential remedies.

Serpent Encryption for Confidential Records | [Github](#)

- Conducted an in-depth analysis and created python implementation of the Serpent cipher and its cryptanalysis.
- Utilized Flask, Python, HTML, and CSS to develop an application that selectively encrypts requested columns in datasets for protection of sensitive data.

SIH 2022 project on Entity Resolution (Winner among 3 lakh+ participants) | [Github](#)

- Title: Estimating % level of matching between entities to consolidate data from multiple govt. programs.
- I majorly worked on curating a dataset and implementing phonetic matching.

SKILLS

Languages: Python, SQL, HTML, CSS

Tools and Frameworks: Git, Github, MySQL, Neo4j, Spark, OpenAI API, HuggingFace, PyTorch, WSL, Cppcheck, Qt, PyWebIO, Flask, Observable(D3), Selenium Web Driver, Sage, OpenCV, Latex

Relevant Coursework: Information Retrieval, Natural Language Processing, ML, AI, Data Analysis and Visualisation, Digital Image Processing, Cryptography, Data Structures and Algorithms

PORs

Member: Developer Student Club (Google Developer Initiative), Student Placement Team, IIT Bhilai

Coordinator: Renaissance (Arts Club, IIT Bhilai), Co-headed Decor Team, Meraz'22 (Annual Techno-Cultural Fest)

Executive: Student Alumni Cell (2022-23), Student Mentorship Program (2020-22)