

R ANJANA NARAYAN

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Portfolio

SUMMARY

A punctual and hardworking student seeking to apply my expertise in machine learning and algorithmic design to drive innovation and deliver actionable insights. Quick learner and a team player possessing great analytical and problem-solving skills.

EDUCATION

B.Tech. Computer Science Engineering

Indian Institute of Information Technology, Design & Manufacturing
Kancheepuram

Aug 2021 - Present

CGPA: 8.84

Higher Secondary School

Kola Perumal Chetty Vaishnav Senior Secondary School
Chennai

2021

97.4%

High School

Kola Perumal Chetty Vaishnav Senior Secondary School
Chennai

2019

95.5%

EXPERIENCE

• Summer Research Intern – IIT Madras

May 2024 - July 2024

- Devising efficient strategies to interpret and respond to log data for enhanced cybersecurity measures.
- Developing an indigenous Cloudflare solution aimed at blocking bot traffic, including the implementation of advanced security protocols to safeguard web assets against automated threats.
- Leading the integration of OAuth to ensure robust authorization and access delegation, thereby strengthening the overall security architecture of the system.

• Research Intern - IIITDM Kancheepuram

May 2023 - July 2023

- Worked on an DST-sponsored project, developing a high-precision fire detection system utilizing IoT technology and graph algorithms for Industry 4.0 establishments.
- This sophisticated system offers faster response times and smart decision support with GEO-assisted navigation.

CERTIFICATIONS

- Ethical Hacking, NPTEL
- Introduction to IoT, NPTEL
- Machine Learning Specialization, Coursera

May 2023

Nov 2023

Dec 2023

SKILLS

- Programming languages known: C, C++, Python, MySQL, HTML, CSS, JavaScript
- Software: AutoCAD, MASM, Logisim Evolution, CISCO Packet Tracer

PROJECTS

- **Stock Price Prediction**
 - Designed and implemented predictive models using LSTM, ARIMA, and regression techniques to forecast stock prices for diverse companies, leveraging extensive time-series datasets.
 - Achieved higher accuracy with LSTM by capturing complex temporal patterns, demonstrating its efficacy in financial forecasting.

Sep 2024 - Nov 2024
- **Nail bed as biometric for identification**
 - This review examines the intricate anatomical features of the nail bed and evaluates advanced imaging techniques used to capture detailed nail bed patterns.
 - It also investigates state-of-the-art algorithms for precise feature extraction and effective pattern recognition methods.

Jan 2024 - May 2024
- **IIITDM Dining Preference Prediction**
 - Utilized real data to predict students' dining preferences at IIITDM campus.
 - Employed comprehensive pre-processing techniques and implemented logistic regression from scratch.
 - Enhanced the efficiency of mess operations, resulting in significant improvements in service quality.

Nov 2023
- **IIITDM Alumni Portal**
 - Developed a dynamic web project using HTML, CSS, JavaScript, NodeJS, and MySQL.
 - Designed to foster alumni-student connections with an intuitive interface, interactive elements, event management, and secure database handling.

Feb 2023 - May 2023

ACHIEVEMENTS

- Best Interdisciplinary Project Award, IIITDM Kancheepuram
 - Best Student Award, Kola Perumal Chetty Vaishnav Senior Secondary School
- 2024
2019

REFERENCES

- Dr. Preeth R

Assistant Professor, IIITDM, Kancheepuram

Email - preeth@iiitdm.ac.in

Dr. Ram Prasad Padhy

Assistant Professor, IIT, Bhubaneswar

Email - ramprasad@iitbbs.ac.in
- Prof N.S. Narayanaswamy

Professor, IIT, Madras

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