

SHAMBHAVI SUDARSAN

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EDUCATION

SIES Graduate School of Technology, Nerul, India

June 2021

Graduated with a Bachelor of Engineering in Computer Engineering with *Distinction*

(CGPA 8.48/10)

Relevant Coursework: Data Structures and Algorithms, Operating Systems (Linux), Computer Network, Theory of Computer Science, Machine Learning, Database Management Systems, and Natural Language Processing.

Pace Junior Science College, Nerul, India

May 2017

Secured *Distinction* in Higher Secondary Certificate Examination

(91%)

PROFESSIONAL EXPERIENCE

SIES Graduate School of Technology, Nerul, Navi Mumbai

October 2021 – Present

Research Assistantship

- Visualized NER tags to generate insights from patient records with the help of Neo4j.
- Generated results by creating a knowledge graph and querying the graph using Cypher Query Language for possible diseases a person might have based on the different symptoms stated.

Maxis Motion Controls, Pune, India

April 2021 – October 2021

GUI Developer

- Enabled searching and deletion of multiple entities from the database by creating a GUI by employing Tkinter library from Python and connecting it with SQL Server 2014 database.
- Created graphs in GUI using Matplotlib library of Python and built polar plots in the Tkinter-Canvas widget. Produced a curve to show deviation from the actual circle.

ACADEMIC PROJECTS AND PUBLICATION

E-Commerce Website with Image Search and Price Prediction

- Built and web-hosted a MERN stack e-commerce website on Heroku with Image Search feature to ease searching of similar apparel and Price Prediction feature to predict used/new phone prices for sellers.
- Created the Image Search model to add the image search model in the above point. using CNN model Resnet50 (Time Complexity - 10s) and Price Prediction feature utilizing Lasso Regression (RMSE - 0.67)
- Authored a research paper on the same which was accepted in 'International Conference on Evolutionary Computing and Mobile Sustainable Networks' and will be published in Springer Lecture Notes on Data Engineering and Communications Technologies. ISSN: 2367-4512

HealthBuddy-DApp

- Developed a website with the help of ReactJS, NodeJS, and Solidity to create secured data exchange between patients, insurance companies, chemists, and doctors.
- Connected solidity to frontend by using Web3. Migrated smart contracts to host with help of truffle.
- Managed insurance company's diseases not covered by comparing with patient's disease.

Detection of Cyberbullying in social media

- Leveraged transfer learning technique to improve the accuracy of LSTM and CNN models over Twitter and Formspring dataset.
- Achieved an improvement from 0.94 to 0.98 in LSTM and 0.92 to 0.93 in CNN models respectively.

TECHNICAL SKILLS

- Programming Languages: C, C++, Python, Java
- Databases: MySQL, Neo4j, MongoDB
- Web Technologies and Frameworks: ReactJS, NodeJS, HTML5, CSS3, Bootstrap, Rest API, Express JS

EXTRA CURRICULAR ACTIVITIES

- Ranked 114/722 in the regional round and 295/3505 in the qualifier round of the International Collegiate Programming Contest (ICPC) organized by Amrita University in 2020.
- Achieved 2nd Position in Competitive Programming Contest (Turing Cup) held at SIES Graduate School of Technology, Nerul in 2020.
- Secured Gold Medal in Maharashtra State Taekwondo Competition 2019.
- Initiated 'Girl Setter's League' and guided girl programmers to set programming contests in Codechef Campus Chapter in 2020.
- Participated and qualified to top 10 in Hackathon, SPIT Hackathon, conducted by Sardar Patel Institute of Technology in 2019.