

TIRUPATHI SUGUNA BHASKAR

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EDUCATION

Indian Institute of Technology, Kharagpur

2019-2023

Candidate for Bachelor of Computer Science with distinction

6.72/10

INTERNSHIPS

SDE Intern | Mobius Knowledge Services, Chennai(Apr 2022 June 2022)

- Pioneered a bot-integrated responsive front end web page for an address bot, generating addresses throughout the UK via seamless integration with a backend API., elevating automation efficiency, using HTML,CSS and React framework.
- Seamlessly translated Adobe Xd designs into React, accelerating page loads and boosting user sessions .

PROJECTS

Classification of Foliar Diseases in Plants using Deep Learning

Prof. Pabitra Mitra, IIT Kharagpur

- Employed TensorFlow to design a machine learning model, achieving accurate disease identification from a dataset of 23,000 RGB apple leaf images.
- Enhanced model to detect multiple disease symptoms on individual leaves, achieving diagnostic precision results of EfficientNet at 82.497 and SwinTransformer at 82.927 mean scores.
- Incorporated state-of-the-art CNN architectures, including Efficient Net and SwinTransformer, to optimize image feature extraction.

Furniture Rental Store Software

Course Project

- Engineered a Python based website, enhancing store customer interaction using FLASK framework.
- Integrated frontend using HTML, CSS, Bootstrap, and deployed on Heroku, while MySQL ensured streamlined database management.

Fresh Mart

Self Project

- Conceived a user centric online grocery store application, improving product accessibility and usability.
- Innovated an engaging blog feature, ensuring timely updates and announcements, fostering community interaction. Skills used : HTML, CSS, Javascript.

Mini Linux Shell | Operating Systems

Course Project

- Constructed a minishell in C++, simulating Linux kernel functionalities using syscalls.
- Enhanced the shell's usability by integrating external command redirection, piping, and autocomplete features.

SKILLS

Programming Languages: C/C++, HTML5, CSS, JavaScript, Python, SQL

Frameworks and Libraries: C++ STL, Tkinter, Bootstrap, MongoDB, Express, React, Node.js, Flask.

Software Tools: GitHub, MySQL Workbench, VSCode.

COURSES & CERTIFICATIONS

- The Complete Web Development Bootcamp, Udemy.
- Supervised Machine Learning: Regression and Classification , Coursera.

ACHIEVEMENTS/AWARDS

- Achieved All India Rank 4370 (category rank 58) in JEE Advanced 2019, surpassing over 1.74 lakh participants.
- Secured in the top 1% percentile among 1.147 million candidates in JEE Main, 2019.

EXTRA CURRICULAR ACTIVITIES

- Vice captained and played for LLR Hall Of Residence's Badminton team in the Inter Hall Gymkhana Championship, 202122, showcasing leadership and teamwork.
- Represented LLR Hall Of Residence in the Inter Hall Gymkhana Championship Cricket team, 202122, demonstrating athletic skills and dedication.