L Saikrithik

NATIONAL INSTITUTE OF IMPORTANCE

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17/08/2001

Male

Current Location: Chennai

Permanent Address: Chennai

Languages

English

Tamil

French

Spanish

Hindi

Certifications

Harvard University-CS50P Introduction to Programming with Python

University of Michigan-Online Certification in Programming for Everybody (Getting Started with Python) offered through Coursera

Certificate of participation in Online Summer School on **Machine Learning** – July 2021, organized by the Department of Computer Science & Engineering, IIT Tirupati

NPTEL Certifications

The Joy of Computing using Python
(Conducted by IIT Madras)
July – Oct 2022

Marketing Management – I
(Conducted by IIT Kanpur)
Aug – Oct 2022

SUMMARY

B. Tech in Computer Science & Engineering in Indian Institute of Technology, Tirupati [National Institute of Importance]

TECHNICAL SKILLS

Languages: Python, C, C++, JavaScript, Core Java, Lex, Yacc

Python Libraries: NumPy, Pandas, Matplotlib, Scipy

Web Design: HTML, CSS

Frameworks: Django, Express.js, React.js, Node.js, tkinter

Databases: MySQL Server, MongoDB, SQLite, Google Firebase

Operating Systems: Windows 10/11, Linux (Ubuntu)

IDE: Visual Studio, Jupyter Notebook, PyCharm, Android Studio

Version Controls: Github

Others: Autocad

EDUCATION

Bachelor of Technology (B. Tech) — CGPA
Computer Science & Engineering — Dec 2023
Indian Institute of Technology
Tirupati, Andhra Pradesh

Class XII — 72.3%
Shri Krishnaswamy Matriculation — May 2019
Higher Secondary School
State Board, Tamil Nadu

Class X — CGPA 8.4
DAV Senior Secondary School — May 2017
CBSE Board, Chennai

ACADEMIC PROJECTS

Project 1

Title: **Designing of Computer System using ARM Architecture**

Description & Key Contributions

Designed and implemented a system utilizing ARM Architecture for a team project, with a focus on the assembler component

- Developed a comprehensive list of supported assembly code for efficient system functionality.
- Defined an assembly file format, providing clarity through illustrative examples enhancing code readability and maintainability.
- Designed a flexible symbol table data structure and generated examples for effective organization.
- Established a symbol resolution process to optimize program execution, supported by concrete examples.
- Executed a successful demonstration by running assembly programs (Easy1, Easy2, Easy3, Easy4, Moder1, Moder2, Compl1, and Compl2) with a focus on clean and well-documented code.
- Accomplished seamless integration and collaboration within the team, ensuring the successful completion of the project.

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Academic Skills

- Artificial Intelligence
- Compiler Design
- Data Structures
- Software Engineering
- Machine Learning
- Database Systems
- Reinforcement Learning

Extra Curriculars

Active Member of NSS in IIT Tirupati & NCC in School

Participated in Blood Donation Camp conducted by IIT Tirupati

Bagged prize in Space Quiz conducted by IIT Tirupati

Awarded Second prize in English Skit Competition in Interdepartmental Competition conducted by IIT Tirupati

Soft Skills & Strengths

- Good Communication
- Problem Solving
- Self Confidence
- Ability to Plan & Organize
- Adaptability
- Flexibility
- Creativity

Internship

BMI Calculator and Diet Plan Website

Summer Intern: June 2022- July 2022
Environment: Python, Django, Firebase, JavaScript, HTML, CSS
Organization: WolfersTech, Chennai

Interests

- Reading Novels
- Chess
- Music

Project 2

Title: **Conditional Value at Risk Estimation (CVAR) in Reinforcement Learning**
Duration: 7th Semester Individual Project
Environment: Reinforcement Learning, Python, Jupyter Notebook

Description & Key Contributions

This study considers an efficient method for the estimation of quantiles associated with the (random) time required to process an order during conditional value-at-risk in Reinforcement Learning Environment.

- The key difficulty is the quantity of observations needed when they are the results of costly numerical simulations.
- Proposed a design to implement naive Monte Carlo and variance-reduction technique, Importance Sampling for estimating quantile and find an efficient technique.
- Furthermore, planned to implement other Monte Carlo simulation methods for estimating a quantile.

Project 3

Title: **BMI and Dietplan Android App**
Duration: 7th Semester Team Project
Environment: Android, Java, JavaScript, HTML, CSS, SQLite
GitHub Link https://github.com/lsaikrithik/bmisdg

Description & Key Contributions

The Body Mass Index (BMI) Calculator and Diet Plan App is a software project which calculates BMI as well as incorporates Diet Plan for individuals based on their food preferences Collected diet charts for people with different food preferences

- Created App using Android, Java, JavaScript, HTML, CSS, SQLite
- Planned for the way the App features, design, style and the user options to be included
- Planned and designed for extra features in our App to stand out from other similar apps
- Collected diet charts for people with different food preferences

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Project 4

Title: **Engineering Unit (Mern Stack)**
Duration: 7th Semester Team Project
Environment: MongoDB, Express, ReactJS, NodeJS
GitHub Link https://github.com/lsaikrithik/enggunit

Description & Key Contributions

The Module Engineering Unit consists sub modules Complaints, Requests and Requisitions, Booking and allotment of Institute Facilities

- Designing, Consistent page layout and the output was planned and executed in Mern Stack Environment
- Facilitated the booking and allotment of institute common facilities such as Senate Room, Meeting Room, Auditoriums etc.
- The Database was maintained in MongoDB