IIT PALAKKAD

Sriram Nangunoori

Roll No.: 112201019
B.Tech
Computer Science and Engineering
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GitHub Profile
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Education

•INDIAN INSTITIUTE OF TECHNOLOGY, PALAKKAD *2022-present*
B.tech Computer science and engineering CGPA: 8.51

•New Vision Junior College *2020*
Board of Intermediate Education, Telangana Percentage: 98.2

Technical Skills and Interests

Languages: C, C++, Python, HTML, CSS, JavaScript, Bash shell scripting, PostgreSQL
Developer Tools: NumPy, Pandas, Scikit-learn, Matplotlib, Pygame, OpenGL, Yacc, Lex
Frameworks: Node.js, Express.js, EJS, Flask
Coursework: Data Structures and Algorithms, Database Management Systems, Compilers, Introduction to Artificial Intelligence, Computer Graphics
Areas of Interest: Software Development, Full stack development, AI/ML/DL

Projects

•University Management System *Git Repo*
Full Stack Development

- Tools & technologies used: Python, PostgreSQL, HTML, CSS, JavaScript
- Developed a full-stack University Management System (UMS) to streamline administrative and academic operations.
- Implemented features for stream and department management, student and faculty administration, course approvals, and academic term setups.
- Enhanced operational efficiency by digitizing university processes, ensuring secure role-based access control and seamless management of academic workflows.

•Pathfinding Visualizer *Git Repo*
Algorithm Visualizer with Multi Heuristics

- Tools & technologies used: Python, Pygame, Flask, HTML, CSS, JavaScript
- Built a web-based and Pygame-based maze algorithm visualizer that allows users to visualize search algorithms (DFS, BFS, A*, etc.) in real time.
- Included interactive maze generation, algorithm selection, and step-by-step traversal visualization.

•FacePass Authentication System *Git Repo*
Deep learning, Image recognition

- Tools & technologies used: Python, PyTorch, OpenCV, VGG16, NumPy
- implemented a deep learning-based facial authentication system using the VGG16 architecture. Extracted and compared facial features with a registered database for authentication.
- Enhanced authentication accuracy and robustness by leveraging deep learning techniques.

Training and Workshop

Finlatics **Link**

- Gained hands-on experience in business analysis, market research, and financial modeling.

Positions of Responsibility

•Class representative: for Computer science and engineering batch 2022 *Jan 2024- Dec 2024*

Extra curricular Activities

•Core member at YACC Coding Club: Associate in the coding club of IIT Palakkad, Conducting coding events, competitions, developing helpful projects and software.

•Active Member of Cognif-AI club: Club member of IIT Palakkad's Artificial Intelligence Club, participating in projects, events etc.