Rozain Shakeel

Information Technology Undergraduate

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Personal Profile

3rd-year IT undergraduate (CGPA 8.924) with a strong interest in computer architecture and system-level programming. Motivated to contribute to researchs and apply knowledge to real-world projects.

Education

National Institute of Technology Srinagar, B-Tech in Information Technology *Aug 2023 – June 2027*

- **Current Semester**: 5th
- **Current C.G.P.A(till 4th semester)**: 8.924
- **SIH Hackathon (Ongoing):**
  Building a website for Panchakarma Management.

Skills

- **Programming languages:**
  C, C++, Java, Python, Assembly(Basic knowledge),Verilog, VHDL.
- **Machine Learning:**
  Python, NumPy, Pandas, Matplotlib, Scikit-learn (basic understanding)
- **Computer Architecture/Hardware:**
  Pipelining, cache memory, instruction sets (RISC-V), Arduino, Basic networking protocols.
- **Platforms and Tools:**
  VS Code, Latex, Arduino IDE, QEMU/UTM/VirtualBox, Linux(Ubuntu), MySQL, PyCharm, Git/Github,Jupyter Notebook.
- **Frameworks:**
  React, Tailwind CSS, Django.

Projects

1. Spam Classifier.

- Implemented a Naive Bayes SMS spam classifier using TF-IDF vectorization with 97% accuracy on Kaggle SMS dataset.

2. Iris Flower Classification

- Developed a multi-class classification model using KNN and SVM on the Iris dataset, achieving 96% accuracy with Scikit-learn.

3. Diabetes Prediction

- Trained a Random Forest model on PIMA Diabetes dataset achieving 90% accuracy and visualized model performance using confusion matrix ROC curve.

4. Digital Signal Generator

- **Tech Stack**: C++, SFML, ncurses
  Implemented a digital signal generator using line encoding nd modulation techniques.

5. Risc-V Simulation

- Designing a simulator for RISC-V architecture to explore instruction execution, pipelining, and cache memory behavior.

6. Library Management System

- **Tech Stack**: Java, OOP Developed a console-based system to manage books and users using object-oriented principles.

7. Weather App (API-Based)

- **Tech Stack**: HTML, CSS, JavaScript, OpenWeatherMap API
  Built a responsive weather application that fetches real-time weather data using the OpenWeatherMap API.

8. Kashur-Translate App (FrontEnd)

- **Tech Stack**: React, TailwindCSS
  Built the frontend of KashurTranslate, that enables users to translate English text into Kashmiri. Implemented navigation and routing using React Router (react-router-dom) for a seamless single-page application experience.

Certificates and Achievements

1. 1st Prize – Robo War Competition

- **Tech Stack**:Ardunio IDE

  Secured first place in an inter-college robotics competition by designing and operating a competitive combat robot.
  Collaborated with team members to develop an efficient mechanical design and control logic for real-time performance.

2. Robotics Internship – [Teachnook] (*12/2023 - 02/2024*)
Completed hands-on training in Robotics including circuit design, motor control, and Arduino programming.
Project: Built a functional Robo Car capable of obstacle detection.

Interests:-

CyberSecurity and Cryptography: Exploring the fundamentals of data security and encryption for secure system design.

Events Organized

Organizer- Robo War and Robo Soccer Competition - [Techvaganza] (*Oct-2024*)