Rishit

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EDUCATION

SLS DAV Public School, Delhi   CGPA: 9.1
Standard 10th, CBSE   *Apr. 2018 – March 2019*

SLS DAV Public School, Delhi   Percentage: 83
Standard 12th, CBSE   *Apr. 2020 – March 2021*

IIIT, Delhi
Bachelors of Technology, Computer Science and Engineering   *Nov. 2022 – Present*

EXPERIENCE

PHP Full Stack Developer Assistant Intern   Jan 2024 – Present
Rural Handmade, London   *Remote*

- Collaborating on full-stack development projects, utilizing **PHP**, **JavaScript**, **HTML**, **CSS**, and **CodeIgniter** to build scalable and user-friendly web applications.
- Developing and integrating **REST APIs** with **MySQL** and **MongoDB** databases, ensuring seamless communication between front-end interfaces and back-end services.

Undergraduate Researcher   Aug 2024 – Present
Professor Arani Bhattacharya   *IIIT, Delhi*

- Developed a real-time object detection system using **YOLOv11**, achieving **75%** reduction in object sizes while maintaining accuracy.
- Employed **segmentation** techniques to isolate and **color-modify** specific **vehicle components** for enhanced visualization and analysis.
- Fine-tuning the **YOLOv** models for **Indian roads and vehicles.**

PROJECTS

PriceCast | *Numpy, Pandas, Matplotlib, Scikit-learn, Flask, nginx*   Apr 2024 – June 2024

- Developed an advanced **real estate machine learning model** for the city of **Bengaluru** using **pandas** and **scikit-learn**, integrating **deep learning** techniques for enhanced accuracy
- Used property features like **square footage, bedrooms and bathrooms** to predict the price of a house.
- Created the website using **HTML, CSS, JavaScript**. Hosted on a back-end **Flask**server
- Used **NGINX** to serve **HTTP** requests. Achieved an accuracy of more than **80%**

LinkIt | *Python, MySQL*   Jan 2024 – Apr 2024

- Developed an online retail store with **1000+ users**, implementing roles such as customer, admin, and vendor, supporting **5000+ products**, and facilitating **200+ daily transactions**.
- Implemented product management, customer reviews (**1000+ reviews**), and analytics using over **10 tables** and **1000 rows of data** for insightful performance metrics.
- Ensured efficient data handling and robust back-end support, providing a seamless experience for **1000+ daily active users**.

Stick Hero | *Java, JavaFX, SceneBuilder, Maven, JUnit*   Nov 2023 – Dec 2023

- Developed a game inspired by "Stick Hero" using **OOP principles** in **Java**
- Implemented a **GUI** and used **event-driven programming** for interactive user experiences using **JavaFX**, with over **20 interactive elements**.
- Wrote modular, reusable code, enhancing development efficiency and user experience using **Maven**, reducing code duplication by **30%**
- Passed many tests and checks created using **JUnit**.

Technical Skills

Languages: Java, Python, C/C++, MySQL, HTML, CSS, JavaScript, PHP
Frameworks: JavaFX, SceneBuilder, Flask, JUnit, CodeIgniter, Bootstrap, React Native, Node.js
Developer Tools: Git, Bash, Linux, Docker, Maven, Markdown, MS Office Tools like Excel etc., VS Code, Google Colab, Jupyter Notebook
Libraries: pandas, NumPy, Matplotlib, Scikit-learn, OpenCV, PyTorch
Expertise Areas: Data Structures, Algorithm Analysis, Object Oriented Programming, Computer Networks, Operating Systems, Data Science, Data Extraction, Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision, Prediction Models, Database Management Systems, MVC (Model-View-Controller) Principles

Positions of Responsibility (PORs)

- **Technical Council - Events and Operations Team member**

- **Operations Team member at IRC (International Relations Council) IIIT Delhi**

- **Led the EPOCH Hackathon series as an Events and Operations Team member at CyFuse IIIT Delhi**

- **Events and Operations Team member at BYLD IIIT Delhi**

- **Volunteer at NSS (National Service Scheme) IIIT Delhi**

Achievements

- **Received Certificate of Excellence from Competitive Programming Summer Camp 2024 conducted by IICPC (Inter IIT Competitive Programming Conclave)**

- **Solved 300+ DSA and CP problems from Leetcode, Codeforces, Codechef**

- **Received Leetcode "50 Days Badge 2024" awarded to the top 6.9**