

# UJJWAL BALAJI

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## EDUCATION

### SRM University

B.Tech in CSE with AI and Data Science — CGPA: 7.8

Oct. 2020 – July 2024

Sonepat, Haryana

## EXPERIENCE

### Vision Valt

ML Intern

Aug 2024 – Present

Remote, Delhi

- Working on the MVP of the chat-bot, focusing primarily on optimization techniques to improve model efficiency and user engagement based on the NLP.
- Designed chat-bot to provide personalized travel recommendations and information.
- Leveraged Hugging Face models for natural language understanding and generation.
- Integrated machine learning algorithms such as Spacy and NLTK to enhance conversational capabilities.

### Lorraine Music Academy

Full Stack SDE Intern

July. 2023 – Sept. 2023

On-Site, Gurugram, Haryana

- Reduced **30% server costs** through the implementation of Jenkins using the Master-Slave Architecture.
- Load Testing and Balancing with the help of Locust for testing Learning Management System.
- Developed a conversational AI chat-bot using Rasa for a Learning Management System (LMS), enhancing user interaction and support.
- Maintained Documentation for System Architecture and Designing.

## PROJECTS

### SRM UNITE CAMPUS APP | React Native, NodeJS, Expo, ExpressJS

June 2024

- Developed a prototype mobile application using React Native. Used ExpressJS for backend services, including authentication, real-time database. Leveraged Expo for rapid development and testing, achieving **30% faster** development speed compared to traditional methods. Implemented Features like Lost-Found Items and Event Planners.

### Used Car Price Prediction with Regression | Python, Linear Regression, Random Forest

July. 2024

- Developed a machine learning model to predict used car prices using Random Forest Regressor and Linear Regression. Leveraged scikit-learn for model implementation and Matplotlib for data visualization. Analyzed the model's performance to improve prediction accuracy.

## TECHNICAL SKILLS

- Languages:** JavaScript, TypeScript, Python
- Frameworks:** Node.js, Express.js, React.js, Numpy, Pandas, Matplotlib, Spacy, NLTK, Sci-kit Learn
- Tools:** Visual Studio, Git/Github, Docker, Postman, Expo, Jupyter Notebook, Jenkins, Locust
- Databases:** MongoDB, SQL
- Soft Skills:** Leadership, Event Management, Mentoring

## EXTRACURRICULAR ACTIVITIES

- Senior Mentor, WeBytes (March 2023 - Aug 2024):** Coordinated and managed WeBytes, the coding club at SRM University, as a Senior Mentor. Organised various events and activities to foster a vibrant technical community and facilitate learning among members. Mentoring 250+ members and orchestrated engaging tech talks and workshops.
- Lead Organizer, SRM BUILDS 4.0 (Dec. 2023):** Led the SRM BUILDS 4.0, a prominent hackathon event, with a team of organizers. Managed a team of 150 on-ground hackers and achieved a milestone of 800+ registrations, enhancing the event's impact and reach.

## CERTIFICATIONS & ACHIEVEMENTS

- Certificates:**
  - Certificate of Internship Completion with Lorraine Music Academy
  - Certificate of Artificial Intelligence Analyst by IBM
  - Senior Mentor Webytes 2023-2024