Dipu Kumar Sah

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EDUCATION

RR Institute of technology

B.E. in Computer Science & Engineering (GPA: 7.86/10.0)

OM National Academy

Pre-University Percentage: 71.5%

Bengaluru, India Aug 2020 - June 2024

Birgunj, Nepal Aug 2017 - May 2019

EXPERIENCE

KodNest - Java Intern March 2025 - Present

Gained hands-on experience in Java, Hibernate, Spring Framework, and Spring Boot for backend development.

- · Worked with SQL databases and explored Python and Django for building web applications.
- Learned frontend technologies including HTML, CSS, JavaScript, and React to develop responsive UIs.

Python and Machine Learning — Intern

KARUNADU TECHNOLOGIES PVT LTD

Aug 2023 - Sep 2023 Hyderabad,India

- I had the opportunity to learn Python, Machine Learning and analysis model.
- Designed and developed a happiness project, leveraging various datasets and algorithms to predict either a person will be happy or not before buying a house.

PROJECTS

ToDo-SubToDo | (to-do-sub-to-do.vercel.app/)

GitHub

React.js, TypeScript, Tailwind CSS

ReactJS with TypeScript

- Built a recursive Todo management app using React (TypeScript), useState, useEffect, and useContext, allowing users to create, edit, and delete todos and infinitely nested subtodos.
- Implemented persistent state management with localStorage to ensure data consistency, synchronization, and safety from loss even after browser reloads or closures.
- Overcame challenges of deeply nested component updates and ensured seamless editing and synchronization of subtodo hierarchies through efficient Added comments for each function to increade readibility of code.

Timetable Generating System

GitHub Frontend GitHub Backend

MERN Stack

- React, React Router, Nodejs, Express, MongoDB
 Developed a web app for schools and universities using a **custom-built genetic algorithm** to automate timetable generation based on teacher inputs, ensuring conflict-free scheduling.
 - · Implemented back end functionalities with javascript, nodejs, Expressjs, and mongodb for user authentication, data storage, and Restful API; and built a responsive react front end with React Router for smooth navigation.
 - Overcame challenges in designing and writing the genetic algorithm to manage multiple constraints efficiently, reducing manual workload and improving scheduling accuracy for educational institutions.

TECHNICAL SKILLS

Java and Spring Boot: java, JDBC, hibernate, jpa, Spring Framework, Spring Boot, sql, postgresql

JavaScript and MERN Stack: javascript , TypeScript , NodeJs, ReactJS, ExpressJS, Redux, React Router, MongoDB

Python: python, django

Other languages & Tools: c, php, git, github, postman, nosql, mongooes, API Development