Subhash Prasad Sah

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PROFESSIONAL SUMMARY

Passionate about full-stack development, with a proven ability to tackle complex challenges. I am driven to find solutions and excel in dynamic development environments. Lately, I've also been exploring the world of DevOps. I'm fascinated by how it helps streamline development, automate workflows, and improve collaboration between teams. From learning about CI/CD pipelines to understanding cloud deployment and containerization, I'm motivated to grow my skills in this area and become a more well-rounded developer.

EDUCATION

Jain University *Bachelor in Computer Science* **CGPA : 8.73/10** Bangalore, India | **07-2022 – Present**
GoldenGate *High School* **CGPA : 2.96/4** Kathmandu,Nepal | **2018-2020**
Tridev English Boarding School CGPA : 3.15/4

PROJECTS

- **BookStore Platform:**
  Developed a comprehensive web-based bookstore platform featuring robust user authentication. The system incorporates a database designed for efficient book storage and implements a categorization system that dynamically adjusts book access based on user login status. Non-logged-in users can browse a selection of free books, while authenticated users, secured via JWT authentication, gain access to premium courses. Achieved 90%+ responsiveness in Lighthouse tests and optimized backend API response times to under 200ms.
  Tech Stack: React.js, Node.js, MongoDB, Express.js, Tailwind CSS

- **Url Shortner:**
  A scalable and efficient backend system for URL shortening was constructed, designed to handle multiple requests. This system utilized MongoDB for data storage, effectively managing original URLs and their generated short links. REST API endpoints were created for URL generation and redirection, and a unique identifier system was implemented to ensure link uniqueness.
  Tech Stack: Node.js, Express.js, MongoDB (Frontend in progress)

- **Docs File to Pdf Converter:**
  A web application was created to facilitate the conversion of DOCX files to PDF, utilizing Multer for efficient file uploads. The application leveraged a database to store both the original DOCX files and the converted PDFs, enabling streamlined access and management. This system was built to ensure secure and efficient file handling, incorporating proper validation techniques.
  Tech Stack: Nodejs, Express, Mongodb, Multer

- **Sentiment Analyzer:**
  Developed a real-time emotion detection application using Convolutional Neural Networks (CNN) with attention mechanisms. The model was trained on the FER2013 dataset and achieved an accuracy of **65%** across seven emotion classes (Angry, Disgust, Fear, Happy, Neutral, Sad, Surprise).
  Built a user-friendly web interface using Streamlit, supporting both webcam input and image uploads. Applied techniques like data augmentation, grayscale normalization, and AdamW optimization to improve model performance. Integrated utility scripts for preprocessing, training, and CLI-based prediction.
  Tech Stack: Python, TensorFlow, Keras, OpenCV, Streamlit, scikit-learn, MTCNN

TECHNICAL SKILLS

Proramming: Java | Javascript | React | Nodejs | MongoDB | Express | SQL | Mysql | NoSQL | Tailwind css
Tools: Git | Vs code | PowerShell | Linux | Shell Scripting | Docker | AWS
Others: Communication | Teamwork & Collaboration | Problem-solving | Adaptability | Time Management

ACHIVIEMENTS

LeetCode: 51