Kartik Buttan

Portfolio – devkartik.me
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WORK EXPERIENCE

Creware Technologies   May 2024 - July 2024
SDE Intern, Internship   Jaipur, India

- **Developed** features for the "Manage Workspace" app, available on Google Play Store/App Store, the app is currently **operational in 5+ office spaces** and manages data for **200+ users**.
- **Designed and implemented** a Machine Learning model to predict coworking space pricing, utilizing 13+ features.
- **Created and integrated** backend APIs for interaction between the frontend and the Machine Learning model.
- **Developed** frontend screens to ensure data input and API integration with backend services.

Rachiyata Infinite Pvt. Ltd.   February 2023 - April 2023
Front-end Intern, Internship   Jaipur, India

- **Developed** the frontend of a Management WebApp using **Material Components**.
- **Worked** on **AngularJS** for creating responsive web applications.

PROJECTS

Event Management Application   Link
Go Lang, Gin, JWT, SQLite3

- **Developed** a backend system for Event Management which includes CRUD operations for an event also managing user subscription to an Event using **Go Lang** and the **Gin framework**.
- **Implemented JWT** for secure authorization and authentication processes for the users and Protected Routes.
- **Utilized SQLite** for database management and data storage.

Image Generator Application   Link
Flutter, Dart, Flutter Bloc, Firebase, API Integration

- **State Management**: Engineered comprehensive state management using Flutter Bloc, optimizing app-wide performance.
- **Image Generation**: Integrated the "IMAGINE API" for real-time image generation based on user-provided prompts.
- **Implemented Image Storage**: Generated images to be saved either locally on the device or in the Firebase Cloud Database.
- **Backend and Authentication**: Deployed Firebase for email/password authentication and Google OAuth sign-in, with Flutter Bloc managing authentication.

OG Chat Application (Ongoing Development)   Link
Go Lang, Gin, Spotify API, WebSocket, JWT, SQLite3, Flutter, React

- **Key Feature -** music synchronization feature using **WebSocket** to play music in sync on each chat.
- **Real-time** tracking for sensitive words to enhance user safety and experience.
- Ensured messages are sent in an **encrypted format** for secure communication.

Twitter Sentiment Analysis Using RNN
Python, Deep Learning, NLP, AI, TensorFlow, Keras, Pandas, NLTK

- **High-Volume Data Processing:** Successfully handled a large dataset with over 1,600,000 rows, employing efficient data preprocessing techniques including tokenization, POS Tagging, and Lemmatization to prepare the data for model training.
- **RNN Model:** Developed a sentiment analysis model using Recurrent Neural Networks (RNN) and Long Short-Term Memory (LSTM) layers, accurate sentiment predictions.
- **High Accuracy Metrics:** Achieved an accuracy of 88% on the validation set, demonstrating the model's ability to perform well to unseen data.
- **Performance Optimization:** Fine-tuned hyperparameters and employed dropout regularization to enhance the model's performance and prevent overfitting.

Open-Source Contributions

- Contributing in various Open-Source Projects like **DrawDB.io, Hexabot** showcasing my ability to **collaboratively work in a team.**
- Participated and successfully completed events like **Hacktoberfest and GSSOC'24.**

CERTIFICATIONS

NPTEL	Foundations of R Software	2023
NPTEL	The Joy of Computing using Python	2022
NPTEL - IIT, Roorkee	Data Analytics with Python	2024
POSTMAN	Postman API Fundamentals Student Expert	2023

TECHNICAL SKILLS

Programming languages: C, Python, Java, Go, Dart, JS

Frontend Technologies: React, Flutter, HTML, CSS, JavaScript

Backend Technologies: Go-Gin, JWT, Fast API

Miscellaneous: DBMS, Machine Learning, NLP, Git and GitHub, Firebase

EDUCATION

POORNIMA UNIVERSITY, Jaipur   2021-25
Bachelor of Technology   GPA: 8.4/10