

Kartik Buttan

Portfolio – devkartik.me

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SUMMARY

I am Kartik Buttan, a motivated student pursuing a **Bachelor of Technology** degree at Poornima University, Jaipur, with a cumulative **GPA of 8.4/10** and expertise in **full-stack app and web development**, and **developing backend as well as frontend**. I have hands-on experience as a **Software Development Engineer Intern** at Creware Technologies, where I developed the "Manage Workspace" app, integrating and developing machine learning model for pricing predictions. I also interned as a **Front-end Developer** at Rachiyata Infinite Pvt. Ltd., focusing on AngularJS. My project portfolio includes an Event Management Application using **Go Lang** (backend), an Image Generator App with **Flutter**, an ongoing **OG Chat Application** and a Twitter Sentiment Analysis using **RNN (Deep Learning)**. I am proficient in programming languages such as **C, Python, Java, Go, Dart**, and various frameworks.

WORK EXPERIENCE

Creware Technologies

May 2024 - July 2024

SDE Intern, Internship

Jaipur, India

- **Developed** the "Manage Workspace" app, a live project now available on the Play 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 seamless interaction between the frontend and the Machine Learning model.
- **Developed and optimized** frontend screens to ensure efficient data input and real-time 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 utilizing **Material Components** for a cohesive UI/UX experience.
- **Gained proficiency in AngularJS** for creating dynamic and responsive web applications.
- **Collaborated** with the backend team to ensure **seamless integration** and full functionality across the application.

PROJECTS

Event Management Application

[Link](#)

Go Lang, Gin, JWT, SQLite3

- **Engineered** 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** to ensure scalability and performance.
- **Implemented JWT** for secure authorization and authentication processes for the users and Protected Routes.
- **Utilized SQLite** for efficient 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 and ensuring a cohesive user experience.
- **Image Generation:** Integrated the "IMAGINE API" for real-time image generation based on user-provided prompts, enhancing dynamic content capabilities.
- **Image Storage:** Implemented flexible image storage solutions, allowing generated images to be saved either locally on the device or in the Firebase Cloud Database.
- **Backend and Authentication:** Deployed Firebase for backend infrastructure, encompassing secure email/password authentication and Google OAuth sign-in, with Flutter Bloc managing authentication and image generation workflows.

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

[Link](#)

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, sequence padding, and word embeddings to prepare the data for model training.
- **Advanced RNN Model:** Developed a sentiment analysis model using Recurrent Neural Networks (RNN) and Long Short-Term Memory (LSTM) layers, ensuring the model captured long-term dependencies in text data for more accurate sentiment predictions.
- **High Accuracy Metrics:** Achieved an impressive accuracy of 88% on the validation set, demonstrating the model's strong predictive performance and its ability to generalize well to unseen data.
- **Performance Optimization:** Fine-tuned hyperparameters and employed dropout regularization to enhance the model's performance and prevent overfitting, ensuring robustness and stability in production environments.

ACHIVEMENTS

NPTEL	Foundations of R Software	2023
UDEMY	Go Lang - Backend Development	2024
UDEMY	Flutter & Dart - The Complete Guide	2024
NPTEL	The Joy of Computing using Python	2022
NPTEL - IIT, Roorkee	Data Analytics with Python	2024
POSTMAN	Postman API Fundamentals Student Expert	2023
CREWARE	Internship Certificate	2024

TECHNICAL SKILLS

Programming languages: C, Python, Java, Go, Dart	Backend Technologies: Go, Gin, JWT, SQLite3, Fast API
Frontend Technologies: React, Flutter, HTML, CSS, JavaScript	Miscellaneous: MongoDB, PostgreSQL, Machine Learning, Git and GitHub, Firebase

RELEVANT COURSEWORK

Computer Science: Deep Learning, Data Structures and Algorithms, Databases, Operating Systems, Computer Networks

EDUCATION

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