

# Kartik Buttan

Portfolio – [devkartik.me](https://devkartik.me)

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## WORK EXPERIENCE

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### 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

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### 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.

## CERTIFICATIONS

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

## TECHNICAL SKILLS

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

## EDUCATION

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