

# JIBIN KRISHNA K T

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## SUMMARY

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Passionate about building real-world software solutions with strong proficiency in Python, JavaScript, SQL, React, Flask, and SQLite. Developed an intelligent Hospital Admin Agent using Python, Google-ADK, async execution, and real-time database triggers, and built a complete e-commerce platform using React with reusable components, routing, and state management. Established a secure authentication system using Flask-Login, Flask-Bcrypt, CSRF-protected forms, and ORM-based SQLite models. Experienced in ML concepts such as regression, clustering, SVM, and KNN using Scikit-learn and TensorFlow. Skilled with tools like VSCode, Jupyter Notebook, MySQL, Bootstrap, KiCAD, and Matlab, and capable of building automation scripts and interactive software applications.

## TECHNICAL SKILLS

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- **Programming:** Python, SQL, JavaScript, HTML, CSS
- **Tools:** VSCode, Anaconda, Jupyter notebook, MySQL, KiCAD, Matlab, LTSpice, Blender
- **Machine Learning:** Linear Regression, Logistic Regression, K-Means clustering, Decision Tree, SVM, KNN
- **Libraries and Frameworks:** NumPy, Pandas, PrettyTable, Turtle, Tkinter, smtplib, Requests, BeautifulSoup, Selenium, React, Flask, Node, Bootstrap, Scikit-learn, TensorFlow, Google-ADK

## PROJECTS

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### Hospital Admin Agent ( Python, Google-ADK, SQLite )

[github.com/Hospital/repo](https://github.com/Hospital/repo)

- An intelligent assistant using Python and Google ADK for automating hospital operations.
- Enforced tool-based backend execution to trigger database updates in real time.
- Built the system using Python, SQLite, async execution, and ADK's session model.
- Created a CLI interface to simulate real hospital administrative workflows.
- Included database initialization scripts and sample data insertion for testing.

### Full-Stack E-commerce Platform ( ReactJS, HTML, CSS )

[github.com/Ecommerce/repo](https://github.com/Ecommerce/repo)

- A responsive e-commerce website with product listing, product details, shopping cart, and checkout flow.
- Built reusable and scalable UI components using React functional components.
- Applied state management using React Hooks (useState, useEffect) for dynamic data updates.
- Integrated client-side routing using React Router for seamless page navigation
- Simulated backend functionality using static/mock JSON data to handle product and cart operations.

### Login Authentication System ( Python, Flask, SQLite )

[github.com/Login/repo](https://github.com/Login/repo)

- Built user authentication system using Python Flask
- Hashed passwords with Flask-Bcrypt (bcrypt algorithm)
- Managed sessions using Flask-Login and @login\_required
- Generated SQLite database with Flask-SQLAlchemy ORM
- Improved forms with Flask-WTF, WTForms, and CSRF

### Python Games

[github.com/python/repo](https://github.com/python/repo)

- Quiz game, Turtle race, Turtle crossing, Snake game, Pong game, States-name game, NATO Alphabet game, Pomodoro countdown, Password manager, Flash card, quiz brain

## EDUCATION

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**BTech** in Electrical and Electronics Engineering  
Government Engineering college Thrissur  
**CGPA:** 7.6

2021 - 2025

## COURSEWORK AND AWARDS

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- 100 Days of Code: The Complete Python Pro Bootcamp on Udemy
- The Data Science Course: Complete Data Science Bootcamp on Udemy
- Full stack Web Development Workshop