

BHOOMIKA K S

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Summary

Skilled Python and React Developer with a strong foundation in full-stack development and a passion for building scalable, user-focused applications.

Education

Dayananda Sagar College Of Engineering

B.Tech. Computer Science and Design Engineering

Nov. 2022 – Present

CGPA : 9.3

Technical Skills

Languages: Python, SQL, PHP, HTML/CSS, Java, C, C#

Frameworks: React, Django, Bootstrap, Pygame, Three.js, Figma

Technologies: Git, GitHub, Node.js, Firebase, VS Code, MySQL, Wordpress, AWS, CI/CD

Work Experience

SDE Intern

May 2025 – Aug 2025

Steadee Ventures

- * Built a scalable cross-platform mobile app with backend API integration and optimized UI performance.
- * Contributed to sprint planning, code reviews, and delivery of production-ready features in an agile team.

Projects

AI Healthcare Chatbot

Dec 2024

AI + NLP Project

- Developed an AI-based mental health chatbot using **Python**, **Streamlit**, **NLP**, and **Machine Learning** for emotional diagnosis and response.
- Created a user-focused frontend and integrated NLP models to identify sentiment and generate therapeutic replies.
- Deployed the prototype during a 24-hour hackathon; contributed to a patent for AI-assisted healthcare automation.

Plagiarism Detector

Nov 2024

AI-Powered Plagiarism Detection Tool

- Developed a plagiarism detection tool using a **React** frontend and a **Django** backend to analyze text similarity.
- Implemented **TF-IDF** and **cosine similarity** to compare input text against web-scraped content for potential matches.
- Integrated **Google Custom Search API** and **BeautifulSoup** for web search and content extraction, enhancing plagiarism detection accuracy.

Encryption Decryption App - Python Sql Connectivity

Oct 2022

Database Management coursework

- Created a tool that allows you to create your own coded language and translate english to your own language, you can also maintain multiple such coded languages.
- Designed the database schema in the **Third Normal Form (3NF)** to ensure data consistency and reduce anomalies.
- Created an interactive frontend using the **TKinter** library from Python.

Achievements

Winner – Blitz'24, Esummit(IEDC DSCE)

Dec. 2024

- Developed an AI-based healthcare chatbot within 24 hours.
- Solved real-world problem of mental health diagnosis using **NLP** and **Machine Learning** to create an **AI-Therapist**.
- Collaborated in a team of 4, handling frontend development and integration.

Patent Contributor: AI Healthcare

Dec 2024

- Contributed to two patent applications under patent review: (1) A location-based ambulance booking app to improve emergency healthcare logistics and , (2) An AI-powered smart mirror for personalized skincare analysis.

Conference Paper

Feb 2025

Context-Aware Text-to-Braille Conversion: Enhancing Literary Accessibility for the Visually Impaired

- Proposed a context-aware text-to-Braille conversion method using NLP to improve accessibility for the visually impaired.
- Presented at International Conference on Computational Mathematics in the Era of Data Science and AI

Certifications

Data Engineering on AWS – Foundation (Amazon Web Services) Certified Associate in Data Analytics-CAD (Service Now) AWS Certified Solutions Architect-CSA (Service Now) Data Analysis with Python (Coursera) Fundamentals of Digital Marketing (Google)