

BHOOMIKA K S

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Summary

Creative Technologist, Python Developer, and emerging Data Engineer with a passion for building user-centered, accessible digital experiences. Strong interest in integrating AI to develop intuitive, impactful applications.

Education

Dayananda Sagar College Of Engineering

B.Tech. Computer Science and Design Engineering

Nov. 2022 – Present

CGPA : 9.2

Technical Skills

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

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

Technologies: Git, GitHub, Node.js, Firebase, VS Code, MySQL, AWS

Work Experience

SDE Intern

May 2025 – Present

Steadee Ventures

- * Developing a scalable cross-platform mobile app using **Flutter**.
- * Leading feature implementation and collaborating across design and backend teams to deliver production-ready components with a focus on usability and performance.

Projects

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.

Pacman

April 2024

A Python Game

- Developed a classic old time arcade game from scratch with three lives and four ghosts haunting you.
- Created an interactive frontend using **Python** and **Pygame** was used to run the game and make the elements move and change accordingly.
- Control your pawn to collect points while avoiding ghosts. Use four power-ups strategically to eliminate the ghosts and stay in the game.

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

Certification

- **Data Engineering on AWS-Foundation** Amazon Web Services
- **Data Analysis with Python** Coursera
- **Fundamentals of Digital Marketing** Google