

SUMUKHA NAYAK

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SUMMARY

Computer Science (Data Science) student with strong foundational knowledge in programming and web development. Skilled in Java, Python, C, and frontend technologies, with hands-on experience in database management using MySQL, PostgreSQL and MongoDB. Familiar with version control using Git. Passionate about building scalable applications and continuously learning new technologies.

TECHNICAL SKILLS

Languages:	Frontend:	Databases:	Tools & Technologies:	Concepts:
Java	HTML	MySQL	Git	Data Structures
Python	CSS	MongoDB	GitHub	Basic OOP
C	JavaScript	PostgreSQL	Linux	
C++			VScode	
			MSoffice	

PROJECT EXPERIENCE

AI-based pothole detection system(ongoing):

Contributing to the development of an AI-based pothole detection system that identifies road surface defects from smartphone-captured images and videos. Responsible for collecting and organizing road-condition datasets, preparing data for model training, and exploring computer vision techniques to improve detection accuracy under varying road and lighting conditions. Collaborating with the team to evaluate model performance and enhance detection reliability through continuous experimentation.

ETL Pipeline for Book Data Extraction :

Designed and implemented an end-to-end ETL pipeline to scrape book data from BooksToScrape using BeautifulSoup. Cleaned, validated, and standardized the extracted data before loading it into PostgreSQL with SQLAlchemy, following a modular Extract–Transform–Load architecture. Utilized Git and GitHub for version control and documented the project to ensure maintainability, scalability, and reproducibility.

[GITHUB](#)

NEXOVA:

Developed and deployed responsive websites for small and medium-sized businesses using HTML, CSS, and JavaScript. Collaborated with cross-functional teams to build user-friendly, cross-device compatible web applications, utilized Git for version control, and supported the deployment and maintenance of client web projects.

[Website](#)

EDUCATION

Bachelor of Engineering in CSE(Data science), MITK, Kundapura, IN.
SMS pre university, Bramavar, Udupi, IN

(Expected) Sep 2027
Aug 2022

Achievements

- The Complete Python Bootcamp From Zero to Hero in Python — udemy
- Java Data Structures & Algorithms + LEETCODE Exercises — udemy