Bagavati Narayanan

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LinkedIn | GitHub | Portfolio

EDUCATION

- **B.Tech in Information Technology** *September 2023 - April 2027*
  Sri Sivasubramaniya Nadar College of Engineering, Chennai
  CGPA: 8.886 (Semester I and II)
  Campus Ambassador of **Geeks for Geeks**
  Technical Team Member of **Sportium SSN**, IMS Team Member of **Lakshya SSN**.
  Mentee, **Codess Cafe**

- **D.A.V. School, Adambakkam** *June 2009 – April 2023*
  - *97 percent* - **Class XII Board Examinations**.
  - *98 percent* - **Class X Examinations.**

PROJECTS

- **LIT'L** *Nov 2024 - Current*
  MERN, Git, Postman
  – Developing a full-stack website for Litl using MongoDB, Express.js, React, and Node.js (MERN stack)
  – Implemented custom design patterns and modular architecture to optimize performance, scalability, and code maintainability
  – Enhanced application efficiency and user experience through streamlined operations and robust back-end functionality

- **Pyxis** *May 2024 - Current*
  OpenCV, Streamlit, YOLO, LLaMA
  – Developing Pyxis, an assistive technology application for visually challenged individuals using Python, OpenCV, YOLO object detection, and LLama language model
  – Integrated real-time object detection, navigation support, and conversational AI features with text-to-speech functionality, while actively developing enhanced features for a completely hands-free experience
  – Created an accessible prototype that helps visually impaired users navigate their environment independently, with ongoing improvements to expand functionality and user experience

- **Mentorship System** *April 2024 - Jun 2024*
  HTML, CSS, JS, Django, MySQL
  – Developed a scalable mentorship platform with role-specific functionalities for mentors, mentees, and managers.
  – Built with **Python and Django**, integrating an **Inverted Index** for mentor note search, achievement updates and meeting requests for mentees, and performance tracking for managers.
  – Enhanced mentorship efficiency with optimized search, seamless interactions, and a user-friendly design.

TECHNICAL STACK

- **Programming Languages & Databases:** Python, Java, SQL, HTML, CSS, JavaScript, MySQL, MongoDB, Firebase, Supabase, Oracle SQL Plus

- **Frameworks, Libraries & Tools:** OpenCV, React.js, Express.js, Next.js, Node.js, Flask, Django, Bootstrap, Flutter, Git, Postman, Google Colab

- **Certifications:** NPTEL's Programming in Java , Udemy's Modern Javascript for Beginners ,
OpenCV University's OpenCV Bootcamp