

Varun Swaminathan M V

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EDUCATION

- Sri Ramachandra Faculty of Engineering and Technology** Chennai, India
Bachelor of Technology CSE - Artificial Intelligence and Data Analytics; CGPA: 8.0 Sept 2022-
Courses: Operating Systems, Data Structures, Web Development, Artificial Intelligence, Machine Learning, Deep Learning, Databases

SKILLS SUMMARY

- Languages:** Python, JAVA, HTML, CSS, JavaScript, ReactJS, SQL
- Frameworks:** Scikit-learn, TensorFlow, XGBoost, Pandas, Keras, Matplotlib, NumPy, NodeJS, Seaborn
- Tools:** GitHub, MySQL, MongoDB, Pip, VS Code, Netlify, npm, Tableau
- Platforms:** Web (Browser-based), Android, Windows, AWS, Deluge (Zoho)
- Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

INTERNSHIPS

- Guidelight - Internship** Internal
Web Development May 2023 - July 2023
 - Accessible Education Platform:** A web app for visually impaired students with audio/video learning materials.
 - Volunteer System:** Enabled student-volunteer matching for academic assistance
 - Accessibility and App Expansion:** Designed for inclusive and user-friendly learning and proposed mobile app version
- Employee Productivity Analysis using Zoho Analytics** External
Data Analyst (Internship) Aug 2024 - Oct 2024
 - Backend Data Handling:** Processed and structured data using SQL for accurate reporting
 - Dashboard Creation:** Built interactive dashboards in Zoho Analytics to visualize key productivity metrics.
 - Deluge Scripting:** Used Deluge to automate data workflows and enhance dashboard interactivity

PROJECTS

- CareSpace – Smart Healthcare Assistant (Web Development, Health Tech):** (Work in progress) Building a responsive web platform to help users locate nearby doctors, check hospital bed availability, and book appointments. Tech: HTML, CSS, JavaScript, OpenAI API (May 2025)
- Sweatzone Fitness Center - Champ Calories Intaker :** A desktop-based calorie tracking and receipt generation tool aimed at promoting nutritional awareness and meal monitoring among fitness enthusiasts and gym members. Integrates SMS-based reporting to enhance accessibility and engagement. Tech: Python, Tkinter, Fast2SMS API, Requests, FileDialog, Random, Time
- Academic Automation using ReactJS:** A web-based platform to automate the input, storage, and retrieval of student academic records, improving efficiency for educators and administrators in managing results. Tech: React.js, Node.js, MySQL, Express.js, HTML/CSS
- Pneumonia detection in Chest X-rays using Transfer Learning :** A deep learning-based desktop tool for automated pneumonia detection from chest radiographs. It incorporates performance visualization and evaluation reporting for clinical relevance. Tech: Python, TensorFlow, Keras, InceptionV3, ResNet50, Matplotlib, Seaborn, Scikit-learn, ImageDataGenerator
- Walmart Analysis:** A regression-based sales forecasting system using Walmart retail data to analyze and predict product-wise outlet sales, supporting strategic inventory, pricing, and store operations planning. Multiple model comparisons enabled robust performance evaluation Tech: Python, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, XGBoost, Ridge, Lasso, Polynomial Regression, LabelEncoder, StandardScaler

HACKATHONS

- Ko-Hacks (GDG Chennai Kotlin Hackathon) :** Participated in a one-day Kotlin-focused hackathon exploring Android, web, and backend development (September'24)
- NER TECH Hackathon 2.0 (Idea Submitted) :** Proposed an innovative solution as part of the initial screening process; gained experience in ideation, proposal writing, and problem-solving (April '25)
- Hack24thon:** Participated in one-day Web based Hackathon conducted by SRET (October '23)

CERTIFICATES

- ISRO (Geodata processing using Python and Machine Learning)
- NVIDIA Disaster Risk Management using AI
- EDUFABRICA (IISC Data Science Workshop)

ACHIEVEMENTS

- First Prize – Research Day 2025** Chennai, India
Presented a paper on NEETRA – A Gamified App for UG NEET Students under the B.Tech (AIDA) March ' 25
- Volunteer – District Rotaract Conference (DRC), District 3233** Chennai, India
Assisted in organizing and coordinating sessions during the district-level Rotaract conference February ' 25