

Suraj Kumar Subudhi

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My Portfolio | LinkedIn | Github



Professional Summary

Results-oriented AI and Data Science student at C.V. Raman Global University, eager to utilize machine learning, deep learning, and data analytics to make a difference in solutions. Java, Python, SQL, and web development professional with hands-on experience in image classification, predictive maintenance, and NLP automation. Successfully developed AI models for the detection of breast cancer with EfficientNetB7 and NASNetMobile and optimized feature selection with Particle Swarm Optimization (PSO). Sound expertise in Hadoop, Power BI, and data processing with projects like matrix multiplication with Hadoop Streaming and data analysis of IPL & Netflix. Hands-on experience with JDBC, APIs, and software development and experience in creating Java Swing apps and Android Studio projects. Ex-intern at Naval Science & Technological Laboratory - DRDO, reflecting the ability to adapt in research-based AI applications. Enthusiastic problem solver, machine learning model optimizer, and intelligent application developer. Presently interested in AI-based video generation models and mobile application development. Willing to deliver innovative solutions in AI, software engineering, and data science while constantly learning and evolving in a challenging environment.

Education

C.V. Raman GLocal University, B.Tech in Artificial Intelligence and Data Science 2021 – 2025

- CGPA: 8.53/10.0

- **Coursework:** Machine Learning, Data Mining, Big Data, Cloud Computing, Operating Systems, Algorithms, Software Engineering, Object-Oriented Programming (Java, C++), Python Programming, Data Structures

College of Basic Science and Humanities, Higher Secondary Education in Science 2019 – 2021
stream

- Percentage: 87%
- **Coursework:** Physics, Chemistry, Mathematics, Biology

Shree Krishna International School, Secondary Education 2017 – 2019

- Percentage: 84%
- **Coursework:** Physics, Chemistry, Mathematics, Biology, Computer Science

Internship Experience

Machine Learning Intern, NSTL - DRDO, Visakhapatnam Dec 2023 – Jan 2024

- Developed a machine learning model to predict the drag force on underwater bodies, achieving 94% prediction accuracy.
- Preprocessed datasets and trained neural networks based on features like shape, size, and speed.
- Validated the model's accuracy to optimize marine designs.

Web Developer, Bharat Intern, Remote Jun 2023 – Jul 2023

- Used HTML, CSS, and JavaScript to create responsive web apps that prioritize mobile design and cross-browser interoperability.
- Developed interactive applications that showcased mastery of UI design and DOM manipulation, such as a Temperature Converter App and a Netflix Homepage Clone.
- Created and launched a personal portfolio website that showcases accomplishments, abilities, and projects with maximum accessibility and performance.

Java Developer, Oasis Info-byte, Remote Jun 2023 – Jul 2023

- Created and implemented Java-based programs, obtaining practical knowledge of data structures, exception

handling, and object-oriented programming.

- developed real-world projects using Java, file management, and user authentication mechanisms, such as an online quiz examination system, an ATM interface, and a number guessing game.
- created and implemented an online railway reservation system with multi-user access features and database connectivity (JDBC) for smooth booking administration.

Training & Courses

Data Science with Python

Nov 2022 – Jan 2023

- Completed comprehensive training in data analysis, machine learning, and Python programming.
- Gained hands-on experience in data preprocessing, model building, and visualization using Pandas, NumPy, and Matplotlib.

Coursera Certifications:

- **Automating Real-World Tasks with Python** - Learned how to automate repetitive tasks using Python scripts, including file handling, API calls, and process automation.
- **Configuration Management and the Cloud** – Explored cloud computing fundamentals, infrastructure as code (IaC), and automated system configurations.
- **Introduction to Git and GitHub** – Mastered version control concepts, including branching, merging, and managing repositories on GitHub.
- **Using Python to Interact with the Operating System** – Worked on system automation by handling files, and directories, and executing shell commands using Python.

Projects

AI Interview Web App

[Link](#)

- Dynamic AI-generated questions based on job role, experience, and tech stack.
- Voice-based answer recording with real-time AI evaluation and feedback.
- Tools Used: React, Next.js, ShadCN, Clerk, Gemini AI, Drizzle

ATM Management System

[Link](#)

- Designed a database-driven ATM management system to efficiently handle transactions, customer data, and security features for banking institutions.
- Tools Used: SQL, MySQL, ER Diagrams, Database Normalization (1NF, 2NF)

Face Recognition Operator Interface

[Link](#)

- Developed a Java Swing-based GUI application for facial recognition and image identification, integrating database retrieval and user interaction features.
- Tools Used: Java, Swing (AWT & JFrame), Event Handling, GUI Design, Image Processing

Responsive Personal Portfolio Website

[Link](#)

- Designed and developed a responsive portfolio website with dark and light mode functionality, interactive UI elements, and animated scroll effects.
- Tools Used: HTML, CSS, JavaScript, Swiper

Technical Skills

Languages: Python, Java, HTML, CSS, JavaScript, C++

Technologies & Tools: React, Node.js, PostgreSQL, MySQL, TensorFlow, Neural Networks, Hadoop, Power BI, GitHub, Ubuntu, Data visualization