

ADITI N PAI

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SKILLS

Programming languages and concepts: C, Python (intermediate), Java, Javascript (basic), Operating Systems, SQL, DSA, OOPS, Relational Databases, Networks.

Frameworks/tools: Linux, Git, React (basic), Flask, Django, Node.js (basic), Visual Studio Code.

Soft skills: Communication, Problem Solving, Creativity, Teamwork, Work ethics, Flexibility, Time management, Leadership.

EXPERIENCE

Intern

Sept. 2023 - Feb. 2024

ATDXT

Bengaluru

- Enhanced an owner registration and authentication system with appointment scheduling functionality.
- Designed a React-based UI for vehicle document management with secure file uploads and optimized PostgreSQL queries.
- Implemented face, fingerprint, and iris biometric-based registration and authentication.
- Developed RESTful APIs using Node.js and Express, integrating frontend and backend systems.

Intern

Nov. 2022 - Dec. 2022

Centre of Excellence in CCTV Research

RVCE, Bengaluru

- Image processing, fundamentals of CNN, Flask, Numpy.
- Implemented image steganography for embedding text, along with image blurring and filtering features in a Flask app.

EDUCATION

R. V. College of Engineering

Bengaluru, Karnataka

Bachelor of Engineering in Computer Science and Engineering: CGPA: 9.37

Dec. 2021 – Dec. 2025

PROJECTS

Skin Disease Detection System | *ML, Python, Flask, tensorflow, keras, HTML, CSS*

- Developed a hybrid diagnostic system for skin diseases, leveraging Convolutional Neural Networks (CNNs) for image-based analysis and random forest classifiers for symptom-based diagnosis.

Network Intrusion Detection System | *Python, Machine Learning, Genetic algorithm*

- Developed a novel ML model for Intrusion Detection System (IDS) using Genetic Algorithms for feature optimization, achieving an accuracy of 92% NSL-KDD and IDS datasets.

Bat Call Annotation Tool | *HTML, CSS, Django, JavaScript, Python*

- Developed a web application for annotating bat calls, generating spectrograms, and classifying species for machine learning training.
- Enabled users to annotate each call and species, which can be further used for training ML models.

CERTIFICATIONS

- 'Data Science for Engineers' by NPTEL.
- 4/8 courses in the 'Google Data Analytics Professional Certification'.

PUBLICATIONS

- Real-time insights and dynamic performance visualizations for unprecedented impact in ball badminton- ISBN: 978-93-5877-507-5, ISCE, Rajasthan, India, Oct. 2023.
- S. Prasad, M. P, R. Adhyapak, A. N. Pai, V. Gadad and S. Rajendran, "Design and development of information management system using QR code based technique," (IITCEE), Bengaluru, India, Jan. 2023.

ACHIEVEMENTS

- Public Relations Coordinator at Team dhRuVa, RVCE.
- Volunteer at NSS, RVCE.
- Worked on antenna simulation and MaNGA DAP in the Radio and Data Driven astronomy verticals of team dhRuVa, RVCE.