SEAN PEREIRA

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SUMMARY

Innovative full-stack developer and ML engineer with strong research foundation in AI/ML optimization, scalable system architecture, and algorithm development. Passionate about contributing to cutting-edge telecommunications research and emerging technologies. Proven ability to design and implement production-grade applications with focus on performance optimization and innovative problem-solving.

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, Java, C/C++, HTML/CSS, SQL
- **Backend Frameworks:** Node.js, Express.js, Spring Boot, Flask, FastAPI
- **Frontend Technologies:** React.js
- **Machine Learning & AI:** TensorFlow, Scikit-learn, NLP, CNN
- **Databases:** MongoDB, PostgreSQL, SQL Server
- **Tools & Platforms:** Git/GitHub, Docker, Jupyter Notebooks, Google Colab, Postman, Figma, PowerBI

EDUCATION

- **Fr. Conceicao Rodrigues College of Engineering (CRCE),** Mumbai Bachelor of Engineering in Computer Engineering | Expected Graduation: May 2027 | **CGPA: 8.56/10.0**
- **Sardar Vallabhbhai Patel Junior College, Mumbai 12th Grade (HSC)** | Grade: **71.17%**| Completed: 2023
- **St. Francis (ICSE) School, Mumbai 10th Grade (ICSE)** | Grade: **98%** | Completed: 2021

EXPERIENCE

Technical Trainee – E-Cell IIT Guwahati Incubation Program *Duration: March 2024 (45-day intensive program)*
Completed intensive technical training in backend architecture, scalable system design, AI/ML applications, and technical leadership. Focused on startup ecosystem methodologies and optimizing production systems.

PROJECTS

ChromaGen.AI – AI-Powered Image Colorization Platform 🔗

Technologies: Python, TensorFlow, Flask, REST APIs

Engineered ChromaGen.AI, an AI-powered deep learning platform using a CNN for automatic image colorization, achieving 92% fidelity with a scalable Flask REST API.

FrCRCE Academic FAQ Chatbot – Intelligent Document-Based Q&A System 🔗

Technologies: Python, NLP, Streamlit

Engineered ChromaGen.AI, an AI-powered deep learning platform using a CNN for automatic image colorization, achieving 92% fidelity with a scalable Flask REST API.

DrCropper.ai – AI-Powered Agricultural Health Management Platform 🔗

Technologies: Python, CNN, Flask, MongoDB

Engineered DrCropper.ai, a full-stack AI platform using a 94% accurate CNN for crop recommendation based on soil image analysis and farmer support chatbot.

LLC@FrCRCE – Course Management System 🔗

Technologies: Node.js, Express.js, MongoDB, React.js

Developed a full-stack course management platform for 500+ students, featuring dual interfaces, JWT security, and real-time enrollment analytics.

CERTIFICATIONS & ACHIEVEMENTS

- **Third Place Winner At Hackathon 3.0 at IES College of Management and Research 2025 Hackathon, Bandra**
- **Represented College at Avishkar Research Convention 2025 organized by Mumbai University**
- **NSS Member – National Service Scheme, 2025 – Active volunteer in community service initiatives**
- **Finalist – Sambhav Webathon 2024 (DY Patil University, Pune)**
- **4th Ranker – St. Francis School(ICSE), Mumbai – Ranked 4th among 200 students in school**