

Jay Dattatray Kotwal

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LinkedIn GitHub LeetCode CodeChef CodeForces

Education

Pune Institute of Computer Technology, Pune

Bachelor of Engineering in Electronics and Telecommunication Engineering

CGPA: 9.53/10

Aug 2023 – June 2027

S.N.J Secondary High School, Chandwad, Nashik

Secondary School Certificate (SSC)

Percentage: 94.40%

March 2021

Maharani Usharaje Holkar High School, Chandwad, Nashik

Higher Secondary Certificate (HSC)

Percentage: 76.83%

March 2023

Projects

SeedSwap: Community-Based Native Seed Exchange

GitHub

- Developed a full-stack MERN platform to exchange native seeds, fostering biodiversity and sustainable gardening.
- Implemented secure JWT-based authentication, role-based access, and protected API routes.
- Integrated image uploads using Multer and MongoDB GridFS, with request-based swaps and email alerts via Nodemailer.
- Built user dashboards, seed filtering, profile linking, and swap tracking features.
- Deployed a RESTful API with Swagger UI, complete with bearer token authorization and endpoint documentation.

Facial Recognition-Based Attendance System

GitHub

- Implemented real-time facial detection using OpenCV and MTCNN for attendance capture.
- Verified identities using Siamese Neural Networks with Euclidean distance for face matching.
- Designed a hybrid backend using Node.js for server handling and Python for ML inference.
- Stored attendance logs in PostgreSQL and rendered data on a user-friendly dashboard.
- Enabled camera integration, automated daily logs, and real-time display of attendance records.

Technical Skills

Programming Languages: C++, Python, SQL, C

Libraries/Frameworks: MERN (MongoDB, Express.js, React.js, Node.js), FastAPI, Streamlit

ML/DS Tools: Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, TensorFlow

Development Tools: GitHub, Git, Visual Studio Code, Docker Desktop, Postman, Tableau

Soft Skills: Problem Solving, English (Proficient), Team Collaboration

Achievements

- Pulzion'24: **1st Prize** in ElectroQuest (October 2024) PASC (ACM Chapter)
- Solved **500+** problems on LeetCode with a peak rating of **1630**.

Certifications

- **Machine Learning by Andrew Ng – Stanford University (Coursera)** – Covered supervised and unsupervised learning, logistic regression, neural networks, and regularization techniques.

Leadership & Extracurriculars

- Conducted **Backend Development SIG** for Pictoreal Club – Mentored juniors on Express.js, MongoDB, REST APIs, and JWT through hands-on project building.
- Member of **PICT NSS Unit** – Contributed to social initiatives, community service drives, and awareness campaigns promoting social responsibility.
- Member of **PICT ACM Student Chapter** – Participated in technical workshops, coding events, and peer mentoring and volunteering.