ATHARVA KINIKAR

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Education

SCTR'S Pune Institute Of Computer Technology   **2020 − 2024**
Bachelor of Engineering in Information Technology   9.44 CGPA

Experience

Barclays   **June 2023 − August 2023**
Summer Intern
- Worked in **RDS core API team** and developed a logging-portal application which utilizes Spring-Boot and enables users to download filtered logs from deployed pods to their client machines.
- Designed & implemented efficient algorithm to filter logs using correlation-id which significantly lowered processing time
- **Optimized concurrent requests** by eliminating file system resource reliance, **reducing response time by 40%**
- Implemented **centralized exception handling using ControllerAdvice** incorporating custom exceptions, and conducted **comprehensive unit testing using JUnit and Mockito.**

Decentro   **February 2023 − May 2023**
SDE Intern
- Developed advanced ML model utilizing YOLO for object detection & **integrated this model seamlessly with OCR**
- Significantly optimized Aadhaar-KYC API by implementing an efficient data extraction technique from Aadhaar Secure QR, resulting in a **remarkable reduction of around 10 seconds in the turnaround time.**
- Designed and implemented a highly accurate **in-house Aadhaar-Masking API** utilizing a ML model, achieving an impressive **accuracy of 98%** which obfuscates the first 8 digits of Aadhaar Number.

Seekmy Technology Private Limited   **April 2022 − June 2022**
Web Development Intern
- Used PostgreSQL, Node.js, Express.js and otp verification to implement authentication without login and register.
- Optimised queries using indexing and other query optimisation techniques which reduced the response time by 30%
- Collaborated with team members to design implement algorithms for slots creation, booking service, **IVR features**.

Projects

Sugarcane crop monitoring using satellite imagery 🔗 | FastAPI,Go,PostgreSQL,Redis,ML   **Sept 2023 - Ongoing**
- Utilized Metabase for creating dashboards, improving data analysis and monitoring efforts and automated the shape-cleanup process with FastAPI server, streamlined code migration, and addressed integration challenges.
- Optimized data management and led data migration of around 1.2 million rows to enhance performance.
- Designed a **sugarcane yield prediction model with accuracy of 95% using earth observational data** and algorithms like SVM and Gradient Boosting, classifying data into prioritized buckets with adaptive prediction timelines.

Acid-Base Disorders in the COPD patients 🔗 | Python,Flask,Node.js,MongoDB,ML   **Oct 2022 - Nov 2022**
- Devised an algorithm which is based on several previous gold standard techniques,including **Henderson–Hasselbalch, Boston, Stewart approach**. Coupled it with machine learning model for severity prediction with accuracy of 93.75%.
- Used AWS-Textract service for OCR for **auto-filling from ABG reports** to reduce overall report generation time.
- Implemented 2FA, download reports feature , quantitative and qualitative analysis and Gamblegram for visualization.

One Point Student-Faculty verification portal 🔗 | Python,Flask,PostgreSQL,Node.js   **June 2022 - Aug 2022**
- Developed a one-point student and faculty verification portal for colleges under AICTE for ease of validation.
- The portal makes it easier for AICTE to validate data from several source points, such as UID, PAN, and NPCI.
- **Integrated many ML models were** with the back-end to validate Aadhar, PAN in addition to OTP verification.
- Implemented an email service to inform users of updates, resulting in a rich and user-friendly experience.

Technical Skills

Languages: C++, Python, HTML/CSS, JavaScript, SQL, Java
Relevant Coursework: Database Management Systems, Data structures & algorithms, Object Oriented Programming
Soft skills: Communication skills, Leadership, Team player
Technologies: PostgreSQL, MYSQL, MongoDB, Docker, Heroku, Git, Node.js, Express.js, Flask, FastAPI

Achievements / Position Of Responsibility

- **Winner UNESCO India-Africa International Hackathon 2022** 🔗 : Won the UIA '22 with cash prize of 300,000 Rupees & **felicitated by the hands of Hon'ble Vice President of India and Hon'ble Minister of Education**
- **Winner of Smart India Hackathon 2022** 🔗 : Senior Division for Problem Statement DR727.
- **Chief Technical Head** at CSI PICT Student Branch: Led 5 technical teams, promoted growth for a 1100-member club
- **Technical Lead** (Xenia MCQ Platform): Led a team of developers to build a real-time MCQ contest platform.
- **TVS Credit E.P.I.C IT Challenge - Semifinalist** 🔗 (Under top 300 out of 17,000 teams).