SAI CHOPADE

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EXPERIENCE

Data Analyst Intern | DATASTACK TECHNOLOGIES **Feb 2025 - Present**

- Worked on real-world pharmaceutical data to analyse clinical output.
- Built interactive dashboards using Apache Superset to help teams monitor health metrics.
- Wrote advanced PostgreSQL queries to extract, clean, and join large datasets.
- Used Apache Flink for real-time processing to support live analytics.

R&D QA Automation Intern | IVALUA *link* **Nov 2024 - Feb 2025**

- Automated a wide range of functional test cases using the Testim automation tool, reducing manual testing effort.
- Designed, implemented, and maintained reliable test scripts applications, ensuring coverage of critical user flows.

Research Program Internship | UNIVERSITI TEKNOLOGI PETRONAS *link* **Jun 2024 - Aug 2025**

- Automated detection of diabetic retinopathy using multiscale residual attention network
- Developed a deep learning model using Multiscale Residual Attention Network to detect and classify severity from retinal fundus images. Applied image preprocessing and data augmentation to boost accuracy.
- Achieved 78.55% test accuracy, surpassing ResNet-based models. Used attention mechanisms for fine-grained feature extraction.

Web Development Industrial Training | SUMAGO INFOTECH PVT LTD *link* **Aug 2021 - Sept 2021**

- Completed a 45-day industrial training program, focusing on web development technologies.
- Developed responsive websites using HTML, CSS, JavaScript, and basic frameworks.
- Received the "Problem Solver" award for designing user-friendly and dynamic websites.

PROJECTS

Machine Learning Models for Alzheimer Disease Prediction, Risk Analysis and Recommendations | *Github*

- Trained and evaluated multiple ML models, achieving up to 82.3% accuracy.
- Developed a rule-based recommendation engine to provide health suggestions.
- Integrated the system into a user-friendly Python-based interface.

Unilateral Facial Paralysis Detection | *Github*

- Developed a deep learning-based application to detect and grade unilateral facial paralysis using facial landmarks.
- Achieved 89.87% accuracy with CNN and inceptionV3; included severity scoring and user interface for clinical use.

TECHNICAL SKILLS

- **Languages & Databases**: C++, Java, Python, JavaScript, SQL Server, PostgreSQL
- **Tools and Platforms**: GitHub, VSCode, Android Studio, Windows, Ubuntu, Docker, Apache Superset
- **Libraries**: OpenCV, Pandas, NumPy, SciPy, Scikit-learn, Matplotlib, PyTorch, Seaborn
- **Technologies :** Machine Learning, Deep Learning, Data Science, Neural Networks
- **Framework:** Apache Flink, Apache Kafka, OpenSearch

CERTIFICATION

- **Infosys Springboard Certification** - Data Science and Time Management.
- **Android Development AICTE** - Android Developer virtual and Internship.
- **Udemy** - Apache Kafka series Learn Apache kafka for begineers.
- **Udemy** - LangChain - Develop AI Agents using LangChain & LangGraph.

ACHIEVEMENTS

- **Research Paper Published in Springer** - ESTCON 2024, Sabah International Convention Centre, Malaysia "Performance Analysis of Deep Learning Classifiers for Unilateral Facial Paralysis Health Detection" *link*
- **Problem Solver Award** in Industrial Training at Sumago Infotech Pvt Ltd *link*

EDUCATION

B.E., Computer Science and Engineering (AI & ML) **2022 - 2025**

Pimpri Chinchwad College of Engineering, Pune | CGPA 8.66

Diploma in Computer Engineering **2019 - 2022**

Government Polytechnic Malvan, Malvan | 92.63 %