CHOPANE ASHLESHA SUNIL

B.Tech. - Electronics and Telecommunication Engineering

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MIT | Academy of Engineering
(An Autonomous Institute Affiliated to Savitribai Phule Pune University)

BRIEF SUMMARY

I am an enthusiastic and driven individual, always eager to embrace new learning opportunities. I am committed to personal growth and continuously seek experiences that will help me evolve into the best version of myself.

KEY EXPERTISE

C Programming SQL AWS OOPs Power BI SDLC Agile Communication Core Java Manual Testing JIRA HTML CSS Bootstrap Javascript ReactJS

EDUCATION

MIT Academy of Engineering, Pune 2021 - 2025
B.Tech. - Electronics and Telecommunication Engineering | CGPA: **8.78** / **10**

Tip Top College, Nagpur, Nagpur 2021
12th | MSBSHSE | Percentage: **92.67** / **100**

Lions English Medium High School, Wani, Wani 2019
10th | MSBSHSE | Percentage: **85.40** / **100**

INTERNSHIPS

SUVIDHA FOUNDATION | NGO / Social Services 01 Jun, 2024 - 31 Jul, 2024
Web Developer

Key Skills: HTML CSS ReactJS AWS

As a Web Development Intern at Suvidha Foundation, we contributed to the development of website, focusing on both design and functionality. I collaborated with a team to implement new features. Through this internship, I gained hands-on experience with front-end and back-end technologies, enhancing my skills in web development and contributing to a project that aligned with the foundation's mission.

PROJECTS

MARS: Multi-modal AI Research System 20 Sep, 2023 - 25 May, 2025
Mentor: Mrs kavitha Nair | **Team Size:** 3

Key Skills: Python AI_ML Streamlit

Implemented a robust file ingestion module supporting 25 file formats and handling 50 files concurrently.
• Integrated cutting-edge Large Language Model (LLM) models to provide 79% accurate answers for user queries related to ingested documents.
• Executed advanced collaboration features, leading to a fourfold rise in concurrent user engagement and document annotation, driving a 30% enhancement in team efficiency and a 20% reduction in project delivery timelines.

Metaheuristic-Based Machine Learning Models for Accurate Battery Remaining Useful Life Prediction in Renewable Energy storage system
Mentor: Dr. Smita Kulkarni | **Team Size:** 3

Key Skills: Machine Learning Algorithms Data Science and Preprocessing

Developed an advanced machine learning framework for accurately predicting the Remaining Useful Life (RUL) of lithium-ion batteries. We implemented and optimized seven machine learning algorithms, including Random Forest, XGBoost, and Support Vector Machine (SVM), with metaheuristic techniques to improve model performance. As a result, Random Forest achieved a predictive accuracy of 99.68%, while XGBoost reached 99.57%, significantly reducing error rates by 40%.

KoppeeKartel – Responsive Coffee Shop Website with Table Booking
Team Size: 1

Key Skills: HTML CSS Bootstrap Javascript Front-End Web Development

Designed and developed a multi-page responsive website for a coffee shop using HTML5, CSS3, JavaScript, and Bootstrap.

Built an online table reservation system allowing customers to book tables with date, time, and guest details.

Integrated a contact page with Google Maps and inquiry form for easy customer reachability.

Implemented a modern UI/UX with hero banners, service highlights, menu showcase, and smooth navigation.

Ensured mobile-first responsiveness with Bootstrap grid system and custom CSS.

Finance Tracker – Personal Expense & Income Manager
Team Size: 1

Key Skills: ReactJS   Web Development

Built a React.js web application to manage daily expenses and incomes with a clean, responsive UI.

Implemented transaction management (add, edit, delete) with real-time balance calculation.

Developed interactive charts to visualize spending patterns across categories and time periods.

Enabled data persistence using LocalStorage, ensuring user transactions remain saved after refresh.

PUBLICATIONS / RESEARCH / WHITE PAPERS

Metaheuristic-Based Machine Learning Models for Accurate Battery Remaining Useful Life Prediction in Renewable Energy Storage Systems

Sigma Journal of Engineering and Natural Sciences | **Mentor:** Dr. Smita Kulkarni | **No. of Authors:** 5

Key Skills: Machine Learning   Feature Engineering   Data Preprocessing   Research and Techincal Writing

Research project titled "Machine Learning Models for Accurate Battery Remaining Useful Life Prediction," published in Sigma Journal of Engineering and Natural Sciences, 2024. The work involved collecting and preprocessing battery performance data, handling missing values, standardizing data, and selecting key features. Various machine learning models were evaluated, including Random Forest, SVM, and XGBoost, to identify the best-performing model for accurate battery life prediction and maintenance optimization.
Sigma Journal of Engineering and Natural Sciences: https://eds.yildiz.edu.tr/sigma/Announcements/85

ASSESSMENTS / CERTIFICATIONS

Python Programming and SQL

Key Skills: Python, SQL

Cloud Virtual Internship

Key Skills: Cloud

AWS Academy Cloud Foundations

Introduction to Internet of things
Aggregate: 88 / 100

Key Skills: Sensors   Actuators

ORACLE-Oracle Cloud Infrastructure 2023 Certified Foundations Associate

Key Skills: Cloud Computing

CO-CURRICULAR ACTIVITIES

- Volunteer at Saksham NGO

EXTRA CURRICULAR ACTIVITIES

- Participated in various sports during nakshatra

PERSONAL INTERESTS / HOBBIES

- Cooking
- Listening songs
- Travelling and Exploring new places

PERSONAL DETAILS

Gender: Female

Marital Status: Single

Current Address: MITAOE Road ,Kate Patil Nagar,Alandi, Pune Maharashtra 412105, Manas Girls Hostel Tapkir Nagar, Alandi, Pune, Maharashtra, India - 412105

Emails: ashlesha.chopane@mitaoe.ac.in , ashleshachopane10@gmail.com

Date of Birth: 10 Aug, 2003

Known Languages: English, Hindi,Marathi

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