

# Oswin Alex

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## EDUCATION

<b>Don Bosco Institute of Technology</b> <i>Bachelor of Engineering in Information Technology (CGPA- 7.24)</i>	Dec. 2021 May 2025(Expected) Mumbai, IN
<b>Xaviers Technical Institute</b> <i>Diploma in Electronics and Telecommunication Engineering (Percentage- 74.03)</i>	Sept. 2019 Sept 2022 Mumbai, IN

## EXPERIENCE

<b>Department of Information Technology, DBIT</b> <i>Web Developer and Maintainer</i> <ul style="list-style-type: none"><li>Development, maintenance, and performance optimization of the institution's website.</li><li>Implemented performance optimization, resulting in <b>20-30% faster load times</b>.</li><li>Tech Stack: <b>HTML, CSS, JavaScript</b>.</li></ul>	Sept. 2023 – Aug. 2024 Mumbai, IN
<b>AICTE,Alteryx Virtual Data Analytics Internship</b> <i>Data Analytics Intern</i> <ul style="list-style-type: none"><li>Gained hands-on experience with data analytics tools and techniques.</li><li>Enhanced proficiency in data analysis processes and methodologies.</li></ul>	April. 2024 – June 2024 Remote, IN
<b>Wadhwani Foundation, AICTE</b> <i>IDE Bootcamp</i> <ul style="list-style-type: none"><li>Participated in an advanced bootcamp focusing on integrated development environments (IDE).</li><li>Enhanced skills in various IDEs and their application in real-world development scenarios.</li><li>Worked on collaborative coding projects and hands-on problem-solving tasks.</li></ul>	Jan. 2024 Nagpur

## PROJECTS

<b>Centralized Nasha Mukti System</b> <a href="#">Link</a> <ul style="list-style-type: none"><li>Developed a web application to manage addiction rehabilitation centers using a centralized system</li><li>Integrated a <b>role-based access control (RBAC)</b> model for secure user access management</li><li>Implemented <b>CRUD operations</b> for managing patient records, appointments, and schedules</li><li>Utilized the <b>Leaflet.js library</b> to display nearby addiction recovery centers on a map</li><li>Implemented <b>Blowfish Cipher encryption</b> to securely store sensitive data such as patient information</li><li>Tech stack: <b>React.js, Node.js, Express.js, MongoDB, TypeScript</b></li></ul>
<b>Mobile Application for Addiction Recovery</b> <a href="#">Link</a> <ul style="list-style-type: none"><li>Designed and developed a mobile app to assist addiction patients in their recovery journey</li><li>Enabled users to search for and book appointments at nearby rehab centers while tracking recovery milestones and progress via a personalized timeline</li><li>Tech stack: <b>Flutter</b></li></ul>
<b>Data Analysis and Prediction on Drug Addicts</b> <a href="#">Link</a> <ul style="list-style-type: none"><li>Predicted recovery time of drug-addicted patients by analyzing various factors using supervised learning algorithms</li><li>Gained insights and patterns in the recovery process and drug usage across different demographics</li><li>Tech stack: <b>Pandas, NumPy, Scikit-learn, Matplotlib</b></li></ul>

### Truck Logistics Website [Link](#)

- Developed a web application allowing users to book trucks based on their preferences such as price and loading capacity
- Integrated the **Mapbox API** to calculate the distance and total cost between pickup and delivery locations
- Utilized a **MongoDB** database to store truck details, user information, and booking history
- Tech stack: **MongoDB, Node.js, Express.js, React.js, Mapbox API**

### IoT-Based Smart Blind Stick [Link](#)

- Developed a smart stick equipped with **ultrasonic sensors** to detect obstacles and provide feedback to the user.
- Integrated an **emergency button** to send an SMS with the user's **current location** to a designated caretaker.
- Implemented **live tracking** on a web platform using **WebSocket protocol** and **Leaflet.js**.
- Utilized hardware components like **GSM module, GPS module, NodeMCU**, and **ultrasonic sensors**.
- Tech stack: **Express.js, Node.js, React.js, MongoDB, Leaflet.js, WebSocket protocol**

### Email Spam Classifier [Link](#)

- Built a machine learning model to classify emails as spam or non-spam using text data.
- Processed and analyzed datasets using **pandas** and **numpy** for feature extraction and cleaning.
- Implemented algorithms like **Naïve Bayes** and **SVM** using **scikit-learn** to train the classifier.
- Achieved high accuracy by employing **TF-IDF vectorization** for text representation.
- Evaluated model performance using metrics such as **precision, recall**, and **F1 score**.
- Tech stack: **Python, pandas, numpy, scikit-learn**

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## SKILLS

**Languages** : Java ,Python, JavaScript

**Databases** : MySql , MongoDB

**Frameworks** : React js, Node js, Express js, Flutter

**Tools** : Git, Docker, Jenkins, AWS, postman, Wireshark

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## ACHIEVEMENTS

### Winner, Smart India Hackathon 2023

- Problem statement SIH1366: Centralized System for De-addiction Centers.

### Finalist, Yukti Startup Innovation Challenge 2024

- Developed a Centralized System for De-addiction Centers as part of the innovation challenge.