OMKAR VILAS BELOTE

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Education

Ramrao Adik Institute of Technology, D. Y. Patil Deemed to be University	**July 2022 − Present**
B.Tech in Computer Engineering (Minor: Data Science), CGPA: 8.67/10	*Navi Mumbai, India*
St.Wilfred School	**May 2020 − May 2022**
12th Grade, Percentage: 74.20%	*Panvel, India*
D.A.V. Public School	**May 2008 − April 2020**
10th Grade, Percentage: 85.40%	*New Panvel, India*

Experience

Internshala Trainings   **July 2024 − August 2024**
Data Science Trainee
- Gained 8-week hands-on experience in Data Analysis, Visualization, ML and AI, applying concepts across 5+ modules and **scoring 78% in the final evaluation**.
- Implemented real-time Twitter analytics dashboard using **Power BI** that processed **10,000+ tweets** daily, improving trend detection by **40%**.

CODTECH IT Solutions   **February 2025 − March 2025**
Python Development Intern
- Designed an AI chatbot using NLTK with **90%+ response accuracy** in handling **50+** daily user queries.
- Created unified data visualization dashboard integrating **Matplotlib & Seaborn** that reduced reporting time by **25%**.

Projects

AgrowAssist - AI-Powered Agricultural Platform | *Python, Flask, Power BI, Flutter, TensorFlow lite*   **May 2025**
- Developed AgrowAssist, a unified mobile app integrating **4-AI** models.
- Trained lightweight **CNN (MobileNetV2)** and **ANN** models **achieving up to 97.5% accuracy**.
- Quantized models using TensorFlow Lite, reducing size by **60%** for offline mobile deployment via **Flutter**.
- Delivered a technical presentation on research and implementation at **ICETS 2025** to **200+ attendees**.

Brain Tumor Detection Web App | *Python, HTML, CSS, JavaScript, Flask, YOLOv3*   **August 2024**
- Fine-tuned **YOLOv3** model on **15,000+ Kaggle MRI scans** achieving **95.4%** detection accuracy.
- Deployed as web app with **Flask** backend processing **20+ requests/minute** at **less than 1s** latency.

AskDB - Natural Language to SQL Converter | *Python, Flask, LLM, HTML, CSS, JavaScript*   **February 2023**
- Constructed a **Python-Flask** application using **Gemini LLM** to convert natural language into SQL queries with **85%** accuracy.
- Reduced manual query time by **50%** for non-technical users through auto-complete suggestions.
- Crafted responsive UI with real-time suggestions, enabling **100+ SQL** executions.

Technical Skills & Certifications

Languages: Python, SQL, HTML, CSS, JavaScript

Frameworks & Libraries: TensorFlow, Flutter, Pandas, Numpy, Matplotlib, Scikit-learn

Tools: Github, SQL, PowerBI, Tableau, Excel, Oracle, Blender

Technologies: Data Science, Machine Learning, NLP, Web Development, AWS, Data Visualization, AI

Soft skills: Leadership, Teamwork, Creativity

Swayam CEC: Python Elite + Gold Certificate

Microsoft: Data Analysis Certificate

Internshala Trainings: Data Science Certificate

AWS: Data Analytics and Databases on AWS certificate

EDX: PowerBI certificate

ICETS 2025: Certificate of Paper Presentation

Forage TCS: TATA Data Visualization Certificate

Leadership

Lead Presenter & Author − ICETS 2025   **June 2025**
Team Representative   *KJSIT, Sion, India*
- Delivered the paper **"AgrowAssist"** on AI-driven agriculture solutions at ICETS 2025 under the sustainability track.
- Represented a team of **5** authors; led the presentation and Q&A session at a national academic conference.
- Served as an author for the **ICETS 2025** research paper, leading its development, documentation, and submission.

Extracurricular

- Presented "AgrowAssist: AI-Powered Mobile Platform for Smart Farming" at **ICETS 2025, KJ Somaiya, Mumbai**.
- Participated in **CODTECH IT** solution national Python-based hackathon and **scored 37/45**, strong Analytical thinking and programming skills.

Hobbies

Photography, Swimming, Driving, Cricket, Doodle Art, Football, Gaming