Divyani Deshmukh

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EDUCATION

JSPM's Rajarshi Shahu College of Engineering *Pune, MH*
Bachelor of Technology in Automation and Robotics – 8.95 CGPA *Nov 2022 – Jun 2026*

Rashtriya Vidyalaya College
HSC – 80.3% *2020 – 2022*

Grace Academy
SSC – 93.60% *2020*

EXPERIENCE

Research Assistant *Nov 2024 – Present*
- Conducted in-depth research on 10+ scalable technologies and patent requirements.
- Designed and refined 5+ 3D models using SolidWorks for research applications.
- Authored and structured patent documentation files, including detailed technical descriptions and comprehensive claims.

Web Developer – Codsoft *Aug – Sep 2024*
- Generated a 100% responsive tribute page using HTML and CSS, enhancing user engagement.
- Built a full-stack Job Board platform, integrating React (front end) with Node.js (back end).
- Implemented CRUD operations and managed 100+ job listings using MongoDB.

Web Developer – Oasis Infobyte *Jul – Aug 2024*
- Developed a dynamic landing page for Matka Chai using HTML and CSS.
- Coded a fully functional personal portfolio website, showcasing 5+ projects.
- Executed a multi-unit Temperature Converter using HTML, CSS, and JavaScript, processing instant conversions across 3 temperature scales (Celsius, Fahrenheit, Kelvin) with real-time accuracy.

PROJECTS

AI Career Coach Website (ThriveTrail) | *React.js, Node.js, Postgresql, Clerk* *May 2025*
- Used Gemini with Arcjet and Inngest to process AI-powered recommendations and automate career coaching workflows, enhancing the user experience through intelligent and real-time interactions.
- Developed an AI-driven career coaching website that leverages React.js for the frontend, offering personalized career advice, skill development tips, and tailored job recommendations.

AI Financial Business Planner (MoneyMind) | *React.js, Node.js, Postgresql* *Mar – April 2025*
- Built a personal finance management app that helps users track income, expenses, and set budgets, aiming to promote financial literacy.
- Utilized PostgreSQL to store user transactions and budget settings, providing a scalable backend, and designed a clean, responsive frontend using React.

Bus Passenger Monitor | *Python, OpenCV, YOLOv5, Object Tracking* *Jan – Mar 2025*
- By processing live video feeds, the system uses computer vision to track movement direction and accurately update passenger counts in real time.
- Integrated YOLOv5 object detection with a custom tracking algorithm to assign unique IDs and determine direction based on virtual region lines.

TECHNICAL SKILLS

- **Programming Languages:** Java, Javascript, Python, HTML, CSS, React Js
- **Database:** MongoDB, PostgreSQL
- **Data Analysis:** Data Pipeline, Data Visualization
- **Collaboration Tools:** GitHub
- **Machine Vision:** Google Collab, RoboFlow, CNN
- **Designing:** AutoCad, Robo Analyzer, Matlab, TIA Portal, Automation Studio, RoboDK
- **Automation System:** Hydraulic and Pneumatic System, Cobot Programming, PLC, CNC & VMC, 5 & 2 Station Modular Manufacturing System