Om Jalindar Barvekar

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Professional Summary

Results-driven **Full-Stack & AI Engineer** skilled in designing, developing, and deploying **AI-powered cloud applications**. Creator of **AI Career Companion**, an end-to-end resume analyzer using **Google Gemini API**. Expert in **React, Node.js, Express, MongoDB, Tailwind CSS, Python (Flask / FastAPI)**, with strong foundation in **Docker, CI/CD, AWS, and scalable architectures**. Certified by **EDC–IIT Delhi** in Artificial Intelligence Tools and Data Analytics. Passionate about connecting **Generative AI, ML models, IoT devices, and web systems** into production-ready solutions.

Tech Stack: React, Next.js, Node.js, Express, GraphQL, TypeScript, Python, Flask, Docker, Docker Compose, Kubernetes, AWS EC2/S3, GitHub Actions, Redis, Tailwind CSS, TensorFlow, YOLOv5, OpenCV, MLflow, Streamlit.

Core Technical Skills

Languages:	JavaScript (ES6+), TypeScript, Python, Java, C, SQL
Frontend:	React, Next.js, Redux, Vite, Tailwind CSS, Responsive UI, GraphQL API integration
Backend:	Node.js (Express), Flask / FastAPI, RESTful API Design, JWT Auth, Middleware, Validation, Error Handling
Databases:	MongoDB, MySQL, PostgreSQL (familiar), Mongoose ORM, Aggregation, Indexing, Schema Design
DevOps & Cloud:	Docker, Docker Compose, GitHub Actions (CI/CD), AWS (EC2, S3, CloudFormation), Render, Vercel, Kubernetes, Nginx
AI & ML:	TensorFlow, OpenCV, Scikit-learn, **Google Gemini API**, Generative AI, YOLOv5, Pandas, NumPy, Matplotlib, MLflow, Streamlit, Model Evaluation Metrics (Precision, Recall, F1)
System Design:	Microservices Architecture, Scalability, Caching (Redis), API Rate Limiting, Load Balancing, Logging
Version Control & Tools:	Git, GitHub, Postman, IntelliJ IDEA, VS Code, Linux, Maven, NPM
Soft Skills:	Agile Workflow, Problem Solving, Collaboration, Product Mindset, Leadership

Highlighted Projects

1. AI Career Companion — Full-Stack AI Resume Analyzer (Deployed) [GitHub]
React, Node.js, Express, MongoDB Atlas, Google Gemini 1.5 Flash API, Tailwind CSS, Render, Vercel
Developed a production-ready AI resume analyzer that uses **Google Gemini API (Generative AI)** to evaluate resumes for skills, keywords, and ATS optimization. Implements JWT authentication, REST APIs, and dynamic analysis visualization. Deployed a scalable full-stack app with backend on Render and frontend on Vercel. **Live Link:** https://ai-career-companion-frontend-vercel.app
Impact: Real-time AI feedback for career readiness; production-level integration of cloud, AI, and web technologies.

2. Dynamic Full-Stack Portfolio (Secure & Deployed) [GitHub]
React, Node.js, Express, MongoDB, JWT, Docker, Render, Vercel, Tailwind CSS, GitHub Actions
Created a dynamic authentication-enabled portfolio with secure JWT + bcrypt auth, protected routes, and MongoDB Atlas backend. Implemented CI/CD via Docker Compose + GitHub Actions. **Live Link:** https://portfolio-dynamic-auth.vercel.app/login

3. Vybe Ride — JavaFX Ride-Sharing App [GitHub]
Java, JavaFX, MySQL, JDBC, Maven, MVC Pattern
Built a modular desktop ride-sharing prototype using MVC architecture and MySQL integration.

4. Real-Time Vehicular Accident Detection & Alert System [GitHub]
Python, Flask, ML, IoT Sensors, GSM/GPS
Engineered an ML-based accident detector with instant SMS & GPS alerts; reduced response latency by 50%.

5. AI/IoT Integration Projects — EDC–IIT Delhi
Collaborated on smart automation prototypes combining TensorFlow, Arduino, Raspberry Pi, and computer vision. Presented in IIT-EDC demo sessions.

Professional Experience

AI/ML Intern — Labmantics (Remote)   Jun 2025 – Present
Built **ML pipelines and automation scripts** for data pre-processing and predictive analytics. Integrated MLflow for model tracking and evaluation metrics (Precision, Recall, F1). Improved accuracy through feature engineering and hyperparameter tuning; collaborated in Agile team via Git PRs and code reviews.

IoT & Automation Intern — Blackbug Solutions Pvt. Ltd., Pune Mar 2023 – Jan 2024

Worked on **drone automation and sensor network integration**. Handled **telemetry data processing**, hardware testing and documentation of real-time pipelines.

Education

B.E. in Computer Engineering — PDEA College of Engineering, Pune 2022 – Present
GPA: 7.5 / 10.0
Higher Secondary (HSC) — 75 % (2022)   **Secondary (SSC)** — 91.8 % (2020)

Certifications & Achievements

- Certified by **EDC–IIT Delhi** in Artificial Intelligence Tools, Data Analytics & Product Management.
- **Letter of Recommendation (EDC–IIT Delhi)** for AI-based research excellence.
- Recognized for **leadership and technical innovation** in automation projects.
- Completed professional tracks: *"AI is the Future"*, *"Self-Made Millionaire Program"*.

Additional Information

- GitHub Profile: https://github.com/jayaschool1981-rgb
- AI Career Companion (Deployed): https://ai-career-companion-frontend-kufk1wntr.vercel.app
- Portfolio (Authenticated): https://portfolio-dynamic-auth.vercel.app/login
- Portfolio Website: https://om-barvekar-portfolio.vercel.app/
- Familiar with **Agile, Jira, Scrum, Git Branching, PR Reviews, CI/CD Workflows**.
- Interested in roles covering **Full-Stack Development, AI/ML Engineering, Cloud Deployment & IoT Systems**.