Arth Arvind

8460714013 | artharvind18@gmail.com | linkedin.com/in/arth-arvind | Portfolio

EDUCATION

LJ University   Ahmedabad, India
Bachelor of Technology in Computer Science and Engineering   *Sep. 2023 – Present*

Edunova Higher Secondary School   Ahmedabad, India
Higher Secondary Certificate   *May 2021 – March 2023*

EXPERIENCE

Full Stack Developer Intern   November 2025 – Present
Valstrand Solutions   *Remote*

- Led end-to-end frontend and backend development for a real-estate platform owing 4+ core product modules.
- Built client onboarding, and lead generation workflows reducing manual setup effort by 60%
- Engineered email automation and Meta autoposting pipelines, cutting content publishing time from hours to minutes.
- Implemented RAG systems (Vertex AI + vector DB) to analyze 300+ pages of strata documents per run and generate ELI reports.
- Developed Vancouver real-estate analytics pipelines, enabling city-level comparisons across 10+ metrics.
- Used various APIs from Google Cloud Platform to enhance the platform's functionality.

PROJECTS

MarketPulse – AI Business Analyst | *Python, Next.js, FastAPI, CrewAI, Docker*   Sept 2025 – Sept 2025

- Developed a full-stack web application using with FastAPI serving a REST API with Next.js as the frontend
- Framework with 6 specialized AI agents coordinating market research, analysis, and strategic planning.
- Achieved 95% reduction in business analysis time through intelligent agent orchestration, real-time WebSocket updates, and automated matplotlib visualization generation.

3D Talking Avatar Therapist | *Python, React, Socket, GCP, Three.js, Blender*   May 2025 – June 2025

- Real-time AI avatar with voice interaction
- Integrated Gemini model for voice-to-text, text-to-speech and Three.js for dynamic speech, expressions, and animations.
- Used Rhubarb for lip-sync for accurate speech-to-speech synchronization.
- Trained a ML theme model for detecting emotions through the words with 78% accuracy.

IPL Analysis and Prediction | *Python, Streamlit, Pandas, Numpy, Scikit-learn*   Feb 2025 – March 2025

- Built an interactive Streamlit dashboard to analyze IPL datasets and visualize match trends.
- Performed data preprocessing and feature engineering with Pandas and NumPy for trend analysis with 100+ visual graphs.
- Trained two ML models: score prediction (RandomForestRegressor) and win prediction (classification).
- Improved performance by raising score prediction R^2 from 0.69 $\rightarrow$ 0.80 and win prediction accuracy from 65% $\rightarrow$ 78% through hyperparameter tuning.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript
Web Development: React.js, Next.js, Node.js, Express.js, HTML, CSS, Tailwind
AI / ML: TensorFlow, Scikit-Learn, Hugging Face, OpenCV, LangChain, CrewAI
Databases: MySQL, PostgreSQL, MongoDB, Supabase
Other: Google Cloud Platforms, Docker, Django, Flask, FastAPI, REST APIs, RAG Pipeline, VectorDB, Prisma