

Arth Arvind

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EDUCATION

LJ University <i>Bachelor of Technology in Computer Science and Engineering</i>	Ahmedabad, India Sep. 2023 – Present
Edunova Higher Secondary School <i>Higher Secondary Certificate</i>	Ahmedabad, India May 2021 – March 2023

EXPERIENCE

Full Stack Developer Intern <i>Valstrand Solutions</i>	November 2025 – Present Remote
<ul style="list-style-type: none">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 <i>Python, Next.js, FastAPI, CrewAI, Docker</i>	Sept 2025 – Sept 2025
<ul style="list-style-type: none">Developed a full-stack web application using with FastAPI serving a REST API with Next.js as the frontendFramework 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 <i>Python, React, Socket, GCP, Three.js, Blender</i>	May 2025 – June 2025
<ul style="list-style-type: none">Real-time AI avatar with voice interactionIntegrated 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 <i>Python, Streamlit, Pandas, Numpy, Scikit-learn</i>	Feb 2025 – March 2025
<ul style="list-style-type: none">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 R² from 0.69 → 0.80 and win prediction accuracy from 65% → 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