

Arth Arvind

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Career Objective

Proactive Computer Science student specializing in full-stack development and AI/ML. Skilled in building scalable platforms, intelligent applications, and cloud-based solutions using Python, React, and Google Cloud. Passionate about applying technical expertise to deliver innovative, real-world software solutions.

Education

- B.E. Computer Science – LJ University (2023–Present) | CGPA: 9.44
- 12th (HSC) – Edunova High School (2022) | 72 Percentile
- 10th (SSC) – SDA Hr. Sr. School (2020) | 88%

Technical Skills

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

Projects

- **MarketPulse Multi-Agent AI Business Analysis** - Engineered full-stack platform using Next.js, Python FastAPI, and CrewAI 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** – Real-time AI avatar with voice interaction using Python, Socket.IO, Google Cloud, React, and Three.js; integrated Gemini model for dynamic speech, expressions, and animations. Used Rhubarb for lip-sync. Theme model for emotions with 78% accuracy.
- **AI Screen Assistant** – Built an Electron-based desktop app with React and Tesseract.js achieving **90% OCR accuracy**, processing **1,000+ tests** with **<10s response time**. Integrated **Google Gen AI** for contextual text analysis (**85% accuracy**) reducing manual interpretation by **70%**. Added **real-time region selection** cutting processing overhead by **35%**. *[Upcoming]* AI meeting assistant with real-time transcription and auto summaries.
- **IPL Analysis & Prediction** – Built predictive ML models with scikit-learn, improving R^2 score from 0.69 to 0.80 and another from 0.58 to 0.74; created interactive dashboards with Streamlit.
- **Other Projects:** Vital Verse (React Vite, Python), PayNexa(React, Python), InvenSync Inventory Manager (Tkinter, Python), Auction System (Java), Flappy Bird Game (Java).

Certifications

- Exploratory Data Analysis for ML – IBM, Coursera (2025)
- Modern Frameworks & AI-Powered UIs – LJ University (2025)
- HTML, CSS & JavaScript – IBM, Coursera (2025)
- Inheritance & Data Structures in Java – Univ. of Pennsylvania (2024)
- Introduction to Java – LearnQuest, Coursera (2024)