Atharva Badgujar

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EDUCATION

State University of New York at Buffalo   **May 2027**
B.S., Computer science   *Buffalo, NY*
- **GPA: 3.6/4.0**; University at Buffalo Dean's list

WORK EXPERIENCE

School of Engineering and Applied Sciences Lab   **Dec. 2024 – Sep. 2025**
Data Analyst Intern   *Remote*
- Cleaned, processed, and analyzed **1M+ records** using Python (Pandas, NumPy, Matplotlib, Seaborn, Tesseract) and SQL, uncovering critical patterns and insights that guided **institutional and pedagogical strategies across departments.**
- Automated data workflows with Agentic AIs, Python scripts and SQL queries, **reducing processing time by 70%**.
- Applied AI and Machine Learning techniques (e.g., predictive modeling, clustering) to identify key performance indicators.
- Developed clear data visualizations and reports that improved communication of insights in department's research.

Department of Computer Science and Engineering   **Sep. 2024 – Present**
Teaching Assistant   *Buffalo, NY*
- Assisted in 50+ programming assignments and evaluated algorithmic problem-solving approaches for improved outcome.
- Provided feedback through code reviews on efficiency, debugging techniques, and best practices in software development.
- Graded 500+ assignments, projects and exams across multiple sections, ensuring fairness, accuracy, and consistency.

PROJECTS

Crius07 – AI-Powered Web Assistant (Chrome Extension)
- Engineered a multi-component Chrome extension (Manifest V3) with service workers, content scripts, DOM scanning.
- Integrated and developed Chrome and Gemini 2.0 Flash API with Python workflows for screenshot analysis contextual guidance, and persistent states, alongside a companion React.js platform with analytics and deployment on Netlify.

The Middleman – Secure Escrow Platform
- Built a full-stack web development escrow marketplace with Next.js, React, Firebase, and Stripe, enabling secure digital product transactions with AI-powered fraud detection and escrow timers for people who sell and buy services online.
- Implemented payment flows, dispute resolution, real-time tracking in Firebase Firestore, and a responsive web app with Google OAuth, file uploads, analytics, and Tailwind CSS. Integrated DeepSeek R1 API key from Open LM studio.

MindMirror AI – Real-Time Emotion Analysis & Support Platform
- Built a real-time emotion-aware web app using WebRTC, MorphCast SDK, and Gemini API to analyze facial expressions and provide adaptive psychological support with physiological guidance and encouragement.
- Designed an accessible, immersive UI with Three.js visual effects (UnrealBloomPass, ShaderPass) and features like text-to-speech, adjustable text size, and high-contrast mode; currently extending the system with a dynamic 3D facial model.

Schema Morph – Regex-Powered Data Sorting Platform
- Solved a problem of data sorting that I used to face during my Data Science Internship by building Schema Morph.
- **Developed a Python/Flask web application** leveraging **Pandas, NumPy, and Regex** for **data ingestion, transformation, and ETL automation**, enabling **real-time data validation** on datasets up to **5GB**.
- Implemented a dynamic rule builder, export features (CSV/Excel) and applied data profiling to ensure schema consistency, reducing manual preprocessing time by up to 60% through workflow automation and error handling.

SKILLS

- **Programming Languages:** Python, Java, C, JavaScript, R, OCaml
- **Data Science & ML:** SQL (MySQL, PostgreSQL), Pandas, NumPy, TensorFlow, PyTorch, Matplotlib, Seaborn, scikit-learn, Predictive Modeling, Clustering, Data Visualization
- **Full Stack Development:** React.js, Node.js, HTML, CSS, REST APIs, Firebase, Flask, Django, Express.js, MongoDB, Authentication & Deployment (Netlify, Vercel, render)
- **Tools:** Docker, MS Office Suite (Excel, PowerPoint, Word), Tableau, Power BI, Workflow Automation, Agile, Blender