Shreyansh Misra

https://shreyanshmisra.vercel.app/
shreyansh@umass.edu
+1-413-409-9781

Education

- **University of Massachusetts, Amherst** — Amherst, MA
  B.S Mathematical Computing, B.S Informatics — *May 2026*
  - **Coursework:** Programming with Data Structures, Computer Systems, Linear Algebra, Discrete Math.

Experience

- **Falcon Eye Drones**
  GIS Engineering Intern — *June 2023 - Aug. 2023*
  - Collaborated with a team to deploy drones (agEagle, DJI) on mapping missions, then analyzed drone imagery and LiDAR data (with ArcGIS and Metashape) to formulate business solutions for clients.
  - Assisted with day-to-day operations (planning missions, applying for permits, ordering equipment) along with pre-flight operations (drone assembly, maintenance, testing, GPS calibration).
  - Took the initiative to develop Python scripts that efficiently process, clean, and filter large-scale datasets from drone missions (30,000+ images and associated spatial references), saving 2+ hours per mission.

- **UMass Dining**
  Student Ambassador — *Oct. 2022 - Jan. 2023*
  - Surveyed 1000+ students on meal-plans to gauge their interest in UMass Dining's sustainability initiatives (Carbon Ratings, Reusable Cups, Plant Protein) then collated and presented our findings to the board.
  - Met with business partners (New England Kelp, local farms) to discuss student engagement events.

- **Cointelegraph**
  Market Research Intern — *June 2022 - Aug. 2022*
  - Researched startups in the web3 space to join Cointelegraph Accelerator, increasing the projects pipeline by 33%, after which I delivered presentations on the startups that I recommended for investment.
  - Migrated the team's customer relationship management database (consisting of 300+ leads) from Notion to amoCRM, using Python scripts to automate data processing and identify missing information.

Projects

- **Predicting Heart Failure (UCI Dataset)** — Python (NumPy, pandas, scikit-learn, seaborn)
  - Conducted an exploratory analysis of 300+ anonymous patient records and diagnoses from Cleveland Clinic to identify symptoms that highly correlated to heart disease fatalities.
  - Developed and evaluated the effectiveness of 3 machine learning models before concluding that the Logistic Regression model was most effective at predicting heart disease with an accuracy of 88%.

- **AutoDocs API** — TypeScript, Tailwind CSS, Next.js, Prisma, React, OpenAI API
  - Engineered a Code Documentation API that parses a code-base and generates technical documentation for it.
  - Implemented best practices such as Google authentication, route protection, rate limitation, API key system.
  - 85+ API calls and 20+ sign-ups in its first week. Deployed with Vercel at autodocsapi.vercel.app/.

Skills

- **Languages:** Python, Java, C, SQL, TypeScript, JavaScript, MATLAB.
- **Tools:** Git, Next.js, Django, Excel, Power BI, Tableau, REDCap, ArcGIS.
- **Certifications:** Lab Safety, Fire Safety, Bloodborne Pathogens, Biomedical Research, Good Clinical Practice.