

Anshuman Deodhar

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SUMMARY

Curious and motivated Computer Engineering senior with hands-on experience solving real-world problems through data, thoughtful design, and close collaboration. Currently working as a trainee under a product manager at a B2B logistics SaaS Company . Comfortable operating in ambiguous environments, aligning product decisions with user needs, and driving outcomes across engineering and business stakeholders.

EDUCATION

University of Massachusetts Amherst

Anticipated May 2026

Bachelor of Science in Computer Engineering

TECHNICAL SKILLS AND INTERESTS

Languages: Python, SQL, MATLAB, R, Java, JavaScript, C/C++, HTML/CSS, Assembly, ARM

Tools/Frameworks : MS Excel, Arduino Uno, Git, UNIX/Linux, Web Scraping Libraries, Plotly

Concepts: Data Analysis, Data Visualization, Machine Learning, Linear/Logistic Regression, Computer Arithmetic, Linear Programming, Mathematical Modelling

EXPERIENCE

Trainee - Product Management

May 2025 – Present

Simulytics

- Contributed to a product roadmap for a tyre industry client
- Worked on VisionAI with the product team to implement carton detection in warehouse images using YOLOv5 for object detection and image classification
- Trained and evaluated detection models using PyTorch, fine-tuning hyperparameters on annotated datasets
- Converted models for lightweight inference with TensorFlow Lite, enabling low-latency, on-device detection
- Integrated the model into an edge deployment pipeline using a Raspberry Pi 5 and Sony IMX500 AI camera for real-time detection

Data Analyst Intern

June 2025 – Aug 2025

Ganit Inc.

Remote

- Analyzed supply networks using Python and Excel to uncover vendor-wise cost and volume trends.
- Merged multi-source datasets and computed cost savings by comparing current vs. optimal logistics scenarios.
- Completed a capstone analytics project analyzing 1 year of foreign exchange data using the Frankfurter API.
- Used Python, SQL, and Tableau to preprocess, explore, and visualize patterns in currency exchange rates.
- Prepared visual reports and efficiency summaries for internal review and client-facing documentation.
- Operated independently in a remote and ambiguous setup, self-scoping tasks and managing deliverables.

PROJECTS

Diabetes Risk Prediction (Kaggle Competition) | —> [View on GitHub](#)

July 2025

Machine learning pipeline to estimate diabetes probability using anonymized clinical records

- Applied and compared multiple models (Logistic Regression, Random Forest, XGBoost, LightGBM) on a dataset of 100,000 patient entries.
- Focused on maximizing ROC-AUC by handling class imbalance and tuning hyperparameters across models.
- *Technology Used:* Scikit-learn, Pandas, NumPy, Matplotlib

Access Control System | —> [View on GitHub](#)

July 2025

Embedded system to manage room access based on occupancy and health status

- Designed and implemented a programmable access control solution using button input to detect entry and exit events, with live room occupancy tracking.
- Wrote ANSI C code for the ATmega328P microcontroller, without using Arduino-specific libraries.
- Defined performance metrics such as capacity thresholds and occupancy-level indicators (low, medium, full) for real-time visual feedback.
- Integrated I/O components including display modules and door control logic to manage access permissions.
- *Technology Used:* ANSI C, ATmega328P, Embedded Systems, Digital Logic

INTERESTS

Indian Classical Music, Trekking, Marathon Running, Public Speaking