AADITYA SURYA

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EDUCATION

University of Southern California – Los Angeles, CA   **Exp. Grad. May 2026**
Viterbi School of Engineering and Marshall School of Business
Bachelor of Science, Computer Science and Business Administration (STEM)
Relevant Coursework: Advanced Math (Linear Algebra, Differential Equations, Calculus III), Business Micro and Macroeconomics, Discrete Math, Organizational Behavior, Data Structures & OOP, Marketing Fundamentals

EXPERIENCE

Frenchy Digital   **Los Angeles, California**
Technical Product Management Intern   *November 2024 – February 2025*
- Orchestrated collaboration between designers and stakeholders to refine UI/UX through Figma, integrating A/B testing insights to optimize user behavior-driven design for Suren, a B2B SaaS in commercial building automation.
- Coordinated design sprints, gathered and integrated user feedback, and leveraged data-driven decision-making to improve usability, accessibility, and scalability through iterative testing and behavior analysis.
- Directed development preparation by outlining workflows, identifying key resources, and creating a roadmap, implementing A/B testing-driven refinements to ensure efficiency and seamless execution.

GENISYSAPP   **Chicago, Illinois**
Product Management Intern   *May 2024 – August 2024*
- Built and optimized client-facing dashboards using React, Tableau, SQL, and Python, streamlining project tracking for 5+ ongoing projects and improving data visualization for key client reports.
- Collaborated on ERP and cybersecurity product development, leading client discussions and presenting tailored solutions to drive successful delivery for two key clients.
- Developed internal tools, including Slack channels and project management dashboards, boosting team communication and improving operational efficiency by 20%.

Sita Corp   **Somerset, New Jersey**
Software Engineering Intern   *December 2022 – January 2023*
- Engineered an NLP-based resume parser using Spacy & TensorFlow, improving skill extraction accuracy by 22%, and optimizing hiring pipelines for 2,485+ candidates.
- Optimized loss functions for text classification, reducing false matches by 15% and enhancing job-applicant matching precision across enterprise recruitment platforms.
- Designed a multi-threaded data processing system, accelerating resume analysis by 30%, improving system efficiency, and reducing server downtime.

LEADERSHIP AND PROJECTS

Breast Ultrasound Image Classification Research   **Los Angeles, California**
Team Lead   *June 2023 – January 2024*
- Developed a CNN-based tumor classification model using MobileNetV2, achieving 82% accuracy and reducing false positives by 12% through custom loss functions and adaptive optimization techniques.
- Optimized image preprocessing pipelines, enhancing feature extraction and improving model inference time by 30%, ensuring scalability for real-time medical imaging applications. The paper was published in BJUR Vol. 10.
- Deployed multi-GPU distributed training with PyTorch, reducing training time by 40%, and improving model generalizability for deployment in Lesotho, Malawi, and Nepal.

Heart Disease Research   **Kathmandu, Nepal**
Team Lead   *January 2021 – December 2021*
- Spearheaded the development of a machine learning model to predict cardiovascular disease, utilizing multivariate datasets with 76 attributes and achieving over 82% accuracy in diagnosis prediction.
- Engineered an ensemble of Logistic Regression, KNN, SVM, and Random Forest models, applying soft voting techniques to enhance predictive accuracy and ensure model robustness.
- Developed a web application using Streamlit and Flask, integrating the prediction model for user interaction while publishing research on Cornell's Arxiv network to contribute to healthcare innovation.

SKILLS & INTERESTS

Skills: Python, C++, Swift, NLP, ML Classification, Fullstack Dev (HTML, CSS, React), CNN, Pytorch, Git, SQL
Languages: English (native), Hindi (native), French (intermediate), Nepali (work fluency)
Countries Lived In: India, Mozambique, South Africa, Lesotho, Malawi, Nepal, United States
Interests: Swimming, Hiking, Travelling, Poetry, Trekking, Nepali Cuisine, Raspberry Pi, Unnecessary Inventions, Chess
Certifications: Economics & Entrepreneurship (Columbia), Marketing Analytics (UC Berkeley), Big Data & ML (Columbia), Data Science (Harvard), Python (Microsoft), Oracle Cloud Infrastructure Foundations (Oracle)