

AASHMAN RASTOGI

Los Angeles, CA | 424-293-9893 | aashman0803@g.ucla.edu | [LinkedIn/aashman](https://www.linkedin.com/in/aashman) | [GitHub/aashman](https://github.com/aashman) | aashman08.com

EDUCATION

University of California, Los Angeles (UCLA)

Expected Graduation : June 2025

B.S in Statistics and Data Science, Minor in Data Science Engineering

- **Major GPA** : 3.8 – Dean's Honors List(Fall 2021, Spring 2022, Fall 2022)
- **Relevant Coursework** : Data Structures and Algorithms, Machine Learning, Deep Learning, Statistical Finance (MPT and Options), Mathematical Modelling, Probability & Statistical Distributions, Prompt Engineering(DeepLearning.AI), Statistical Data Analysis,
- **Organizations** : Bruin AI, UCLA DataRes, Statistics Club, UCLA Career Center (Operations and Events Assistant)

TECHNICAL SKILLS

Programming Languages : Python (TensorFlow, Pytorch ,NumPy, Pandas, Scikit-Learn ,Seaborn), R (ggplot2, tidy, dplyr), C++, SQL

AI/ML : CNN, LLMs (GPT, Claude, Llama), Prompt Engineering, Computer Vision, Huggingface, Langchain, SVM, Classification, Regression

Software/Tools : AWS (S3 ,EC2, ECS, ECR, CloudFormation, Bedrock, Textract), Docker, CI/CD, Microsoft suite, G-suite, Figma, MongoDB

WORK EXPERIENCE

Artifactual | Software and AI engineer

Los Angeles, Apr 2024 – Present

- Developed AI model for financial data extraction and flagging inaccuracies across different documents, leveraging Claude 3 with prompt engineering to achieve 40% improvement in model accuracy, implemented an ETL pipeline using AWS Textract, S3, OpenCV, and MongoDB
- Architected and implemented a scalable CI/CD pipeline using GitHub Actions, Docker, and AWS services (ECR, ECS, CloudFormation), automating the build, test, and deployment process for a Flask application, reducing deployment time by 50% and errors by 30%
- Streamlined file processing using AWS S3 and deployed a flask application on EC2 server, reducing processing time by 30% during testing
- Scraped broker data from 5 marketplaces, collecting 3500 entries using JavaScript (Puppeteer), implemented batch processing for efficiency

Deloitte | Data Science Intern

New Delhi, Jun 2023 – Sept 2023

- Spearheaded the development of a cutting-edge code generation and dataframe analysis model for a web service, achieving 90% accuracy, using prompt engineering, PandasAI and GPT-3.5-turbo, demonstrating technical prowess thru quick integration of AI into workflows
- Reduced development time by 40% by collaborating with the front-end team to create an MVP for OIC using streamlit for quick deployment
- Optimized computational efficiency and runtime by 30% by implementing custom functions for data cleaning and dataframe structuring

Infogain | Data Science Intern

New Delhi, Dec 2022 – Jan 2023

- Optimized the 'NAVIK – Marketing AI' application for on-prem execution using docker, leading to a 15% projected revenue growth for a telecom client in Ghana by improving operational efficiency and performance
- Accelerated development time by 60% by creating custom python test packages and enhancing proficiency in docker and git operations
- Acquired expertise in business analytics and machine learning strategies, including CLTV prediction, churn rate and customer retention

RESEARCH

Sensing and Infrastructure for Robotics (SRI) lab at UCLA | Undergraduate Research Assistant

Los Angeles, Nov 2023 – Feb 2024

- Trained an image segmentation model on Unet architecture in Pytorch to detect and classify building damages post disaster using CV2
- Reduced overfitting by 20% through structuring JSON data into a dataframe, image augmentation and optimized ETL pipeline process
- Experimenting with different encoder and decoder architectures to improve model based on F1 score and cross entropy loss metrics

PROJECTS

Quantitative Analysis, Statistical Portfolio Management based on MPT

Los Angeles, Sep 2023 - Nov 2023

- Analyzed 30 stocks for managing a \$1,000,000 portfolio using data from yahoo finance based on Modern Portfolio Theory(MPT) Principles
- Utilized Black Scholes Merton Model for options pricing, analyzing Greeks and explored diverse risk mitigation strategies in options trading
- Developed a trading strategy with 50 Daily Moving Average (DMA) and 200 DMA to detect trends & ATR stop loss to identify reversal points

Credit Card Late Fee Prediction Model Based on Personal Characteristics

Los Angeles, May 2023 - Jun 2023

- Performed data cleaning, including label encoding and mapping and feature engineering eliminating non-contributory features in the model
- Optimized feature selection using variance threshold and SelectKBest methods, resulting in a 30% improvement in model accuracy
- Fine-tuned machine learning models such as Random Forest and KNN with hyperparameter optimization, achieving an accuracy of 0.7405

LEADERSHIP AND ACTIVITIES

Bruin AI, UCLA

Los Angeles, Oct 2023 - Present

Logistics Director, SoCal AI Responsibility Summit

Jan 2024 – Apr 2024

- Served as the board member, planning the inaugural summit, and developing the program itinerary, registering over 400 participants
- Led Logistics for the Summit, acting as the primary liaison for AI startups(Kindo.AI, Davante Systems and Hyperspace) and industry attendees
- Coordinated Venue Management, overseeing catering and Ackerman Ballroom layout to meet summit needs, ensuring seamless operations

Partnership Lead; AI innovation at Cisco

Apr 2024 - Present

- Led the inaugural event between Bruin AI and Cisco, cementing our partnership and managed all aspects from marketing to merchandising
- Facilitated a valuable learning experience for the Bruin AI and UCLA community with insights from Cisco's Lead Technical Solutions Engineer