ESHAAN PUNALEKAR

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EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE — Irvine, CA
Bachelor of Science — Expected June 2027
Major in Computer Science; Minor in Innovation and Entrepreneurship
Relevant Coursework: Data Structures, Finite Automata, Formal Languages, Boolean Logic, Discrete Structures, Discrete Mathematics, Mathematical Induction, Combinatorics, Recurrence Relations, Linear Algebra, Multivariable Calculus

WORK EXPERIENCE

SHIFT TECHNOLOGY — Paris, FR
Data Science Intern — July 2024 – Sep 2024
- Modified custom Langchain models, leveraging LLMs to streamline workflows and boost data analysis by over 35%
- Conducted data labeling, annotation, and analysis on edits extracted by Azure OpenAI models to test their accuracy
- Engineered an AI-driven prompt process to refine healthcare code predictions, driving 50% accuracy improvement
- Contributed to over 25% of the company's overall AI impact and data management, enhancing decision-making efficiency

SKIT.AI — Bangalore, IN
Machine Learning Intern — June 2022 – July 2022
- Modified Natural Language Processing (NLP) software and BERT models for enterprise-level voice AI applications
- Trained custom intent classification models boosting AI customer service accuracy by 40%, reducing response times by 20%
- Collaborated with teams to integrate NLP models, enhancing voice AI accuracy and improving customer experience

SCIENAPTIC AI — New York, USA
Data Science Intern — June 2022 – July 2022
- Analyzed and manipulated demographic data, calculating county risk scores and lending probabilities with 95% accuracy
- Utilized Pandas DataFrames to efficiently process large datasets, ensuring 99% accuracy in risk assessment models
- Identified key trends in financial data, supporting client decision-making and improving underwriting accuracy by 15%
- Collaborated closely with cross-functional teams to deliver actionable insights based on demographic and risk data

PROJECTS

TRAFFICAID — May 2021-PRESENT
- Developed computer vision app using Python and OpenCV to analyze real-time traffic footage and support traffic systems
- Enabled dynamic traffic light control and detection of license plates, speed, vehicles, and violations to enhance road safety
- Collaborated with the Ministry of Public Works and Transport in Laos to test and integrate traffic monitoring infrastructure

ADDITIONAL

Technical Skills: Azure OpenAI, Google Calendar API, MATLAB, Model Handling, Transformer Models, Custom Intent Classification, Data Labeling, AI Development, Prompt Engineering, Healthcare & Demographic Data Analysis, Computer Vision, Application & Website Development, Real-time Traffic Management
Languages: Proficient in Python, Intermediate in C++, Java, HTML, Beginner in Swift, JavaScript, CSS
Certifications & Training: Big Data, Machine Learning, and Their Real World Applications (Columbia University), Internet of Things (COSMOS), Machine Learning (Coursera), iOS App Development with Swift (Coursera), Java Programming Masterclass for Software Developers (Udemy), AI For Everyone (Coursera)
Volunteering: Fundraising role with Gram Oorja, a company that aims to electrify rural villages in India via sustainable energy
Awards: Dean's Honor List 2024, Senior Class Valedictorian; North Coast Section, CIF, Scholastic Championship Team; North Coast Section, CIF, President's List