

NITISH NAGESH

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EDUCATION

Ph.D. Computer Science, University of California Irvine; **GPA:**3.81/4.0 December 2024 (expected)

- **Relevant Coursework:** *Machine Learning, Causal Inference, Natural Language Processing, Information Retrieval, Algorithms and Data Structures*
- **Awards:** *Graduate Venture Fellowship (\$5,000), ACM SIGMM Student Travel Grant (\$2,000), Mental Health Hackathon Award (\$3,500), Graduate Student Fellowship (\$2,500)*

M.S. Computer Engineering, University of California San Diego; **GPA:** 3.70/4.0 February 2021

B.E. Electrical Engineering, Visvesvaraya Technological University, India; **GPA:** 3.65/4.0 July 2016

- **Awards:** *Best Outgoing Student, Silver Medal for Academic Excellence, Most Innovative Thesis Award*

SKILLS: Python, R, TensorFlow, C, C++, Matlab, SQL, Tableau.

RELEVANT EXPERIENCE

University of California Irvine, Irvine, CA September 2021 - Present
Research Assistant

- Build personalized food recommendation systems using 3.5+ years food, nutrition, sleep, physical activity dataset.
- Develop open-source food and well-being database for users to navigate their health journey.
- Design novel data collection schema on top of Google's schema in collaboration with dietitians and physicians from Stanford University to standardize food-related dataset collection.
- Develop personalized AI-driven applications to improve peoples mood through timely dietary interventions.
- **Publications:**
 - Nitish Nagesh, Iman Azimi et al. "Towards Building Deep Personal Lifestyle Models using Multimodal N-of-1 Data." 29th International Conference on Multimedia Modeling, 9-12 January 2023, Bergen, Norway.
 - Ali Rostami, Nitish Nagesh, et al. "World Food Atlas for Food Navigation." 7th International Workshop on Multimedia Assisted Dietary Management, 30th ACM International Conference in Multimedia, 10 October 2022.

Qualcomm, Austin, TX March 2021 - August 2021
Corporate Research and Development Engineer

- Developed Python tool to parse data from 5000+ logs of the Qualcomm AI accelerator saving 3x cycle time.
- Triaged and debugged failures in ML accelerators SDK via Python scripting to improve performance benchmarks.

RELEVANT PROJECTS

Natural Language Processing Implementation April 2022 - June 2022

- Classified presidential candidate speeches via supervised and semi-supervised learning in Python and TensorFlow.
- Built and compared n-gram language models to analyze in-domain and out-of-domain perplexities.
- Evaluated summarization models by using top-K sampling, nucleus sampling, beam search decoding algorithms.

Web Crawler and Search Engine Builder January 2022 - March 2022

- Crawled 50,000 URLs from ics.uci.edu domain using Python to find page similarity and subdomains.
- Built search engine using Flask, HTML, CSS to query and retrieve top twenty matches from crawled databases.

Reinforcement Learning and Machine Learning Algorithm Design September 2021 - December 2021

- Programmed reinforcement learning agent using Monte Carlo Tree Search in Python to solve Sokoban puzzle.
- Designed and implemented machine learning algorithms using kNN, Naïve Bayes classifiers, linear regression, cross-validation, logistic regression, shattering, nearest neighbor, decision trees, neural networks, and clustering.

MNIST Classification using CNN September 2021 - December 2021

- Classified fashion-MNIST dataset running convolutional neural networks (CNN) on Google Colab using Python.
- Achieved 95.88% training accuracy and 93% test accuracy after hyperparameter tuning and cross-validation.