

Jamel Hopkins

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EDUCATION

University of California, Irvine

B.S. in Computer Science, Specialization in Machine Learning

Irvine, California

2018-2022

COURSES

Machine Learning: Introduction to Artificial Intelligence, Machine Learning and Data-Mining, Adversarial Machine Learning, Introduction to Deep Learning for Medical Imaging

Data and Algorithms: Introduction to Graphical Models, Graph Algorithms, Applications of Probability in Computer Science, Design and Analysis of Algorithms, Information Retrieval, Introduction to Data Management

SKILLS

Languages: Python, C++, C#, JavaScript, HTML/CSS, C, Assembly

Libraries: React, OpenCV, Matplotlib

Technologies: AWS (Amazon Bedrock, S3, EC2, IAM)

PROJECTS

Web Crawler and Search Engine

- Implemented a focused web crawler to systematically browse and index UCI subdomain pages.
- Used BeautifulSoup to parse HTML and extract links for further crawling.
- Developed duplicate detection to avoid re-crawling previously visited pages.
- Created basic search functionality to query indexed page content.

Wine Classification with Decision Trees

- Built a decision tree classifier to distinguish between red and white wines using scikit-learn.
- Performed exploratory data analysis on wine dataset with 6,500 samples and 9 features.
- Visualized feature correlations using heatmaps to identify most important attributes.
- Achieved 94.7% classification accuracy on test set after hyperparameter tuning.

Twitter N-gram Language Model

- Developed a language model using N-grams to generate tweets based on a user's post history.
- Implemented tweet tokenization and corpus creation from Twitter API data using Tweepy and NLTK.
- Evaluated generated tweets using BLEU score to measure similarity to original user's writing style

PROFESSIONAL EXPERIENCE

Freelance Developer

Front-End Developer

Irvine, California

July 2023 – Present

- Constructed website mockups and user interfaces using HTML, CSS & JavaScript to share concepts with stakeholders.

Code Ninjas

Center Director

July 2024 – Present

- Directed team of 20 instructors, coaching communication skills and attention to detail in a collaborative team environment.

Irvine, California

Programming Instructor

March 2019 – August 2021

- Instructed kids aged 6-14 in the fundamentals of computer programming using JavaScript.