

ANIKET KARNA

+1-385-775-1744 Salt Lake City, Utah | aniketkarna@gmail.com | <https://www.linkedin.com/in/aniket-karna/> | <https://github.com/CrypticNumbers8> |

Seeking internship opportunities as a Software Development Engineer.

EDUCATION

University of Utah, Salt Lake City, USA

August 2021-May 2023(Expected)

Master of Science in Computer Science

Enrolled Courses: Graduate Algorithms, Computer Architecture, Natural Language Processing.

Thakur College of Engineering and Technology, University of Mumbai, India

August 2016–October 2020

Bachelor of Engineering in Information Technology

GPA of 8.71/10

Relevant Courses: Applied Mathematics, Data Structures and Analysis, Data Mining and Business Intelligence, Enterprise Network Design, Software Engineering & Project Management, Cloud Computing, and Big Data Analytics.

TECHNICAL SKILLS

- Programming Languages: C, C++, JAVA, Python, R, MySQL
- Web and Design Software: HTML, CSS, Javascript, Android SDK
- Version Control: Git, Mercurial
- Framework & Tools: Tableau, TensorFlow, Numpy, Pandas, Keras, Matplotlib, Seaborn, Sklearn

WORK EXPERIENCE

Software Developer Intern, Flair Labs, Mumbai

June 2020 – August 2020

- Assisted in software architecture development, prototyping, debugging, and testing.
- Reviewed Product Feature Specifications and created design documentation and test plans.
- Hands-on coding in Java, Python, and Javascript

Graduate Teaching Assistant, University of Utah, Salt Lake City, USA

August 2021 – Present

- Teaching Assistant for CS 2420: Algorithms and Data Structures(Fall 2021).
- Reinforced lessons presented by Professors, developed programming assignments solutions.
- Held office hours, conducted lab sessions and code reviews, and graded student assignments.

ACADEMIC PROJECTS

English Fantasy Premier League Optimal Team Generator

- Segregated player and team stats from the Fantasy Game API.
- Performed statistical analysis on every EPL team as well as individual players using Python.
- Developed a Python algorithm that selected the best players based on their performances and ROI values.
- Achieved a rise of a total of 239 points or 12.8% with respect to last season wherein the players were selected without any algorithm.
- Technologies/Libraries used: Pandas, JSON, Seaborn, SQLAlchemy and Matplotlib

Book Recommendation System based on Goodreads Ratings

- Performed Exploratory Data Analysis to find the most highly rated books and authors from the dataset.
- Segregated ratings into batches to gather that most ratings are in the range of 3 to 4.
- Deployed elbow curve method to find no of clusters for using the k-means algorithm.
- Used ball tree algorithm in nearest neighbors method to build the recommendation model that suggests 5 books.
- Technologies/Libraries used: Python, Pandas, Seaborn, goodreads_api_client, Sklearn, Matplotlib

Waste Classification as Organic or Recyclable using Convolutional Neural Networks

- Scraped data sets of waste items for model training based on primary categories as organic or recyclable waste.
- Developed a Neural Network using Keras library and processed it using Google Colab (GPU- Virtual Machine).
- Achieved model accuracy of 92.9% and model loss of 0.206 on test data sets.
- Published a technical paper on the same in the International Journal for Science and Advance Research in Technology (ISSN 2395-1052) Volume 5, Issue 12, 2019.
- Technologies/Libraries used: Python, Google Colab, Keras, TensorFlow, Numpy and Sklearn

COURSES & CERTIFICATIONS

- Kaggle Micro-Courses: Python Programming, Intro to Machine Learning, Intermediate Machine Learning, Intro to SQL, Pandas, Data Visualization
- Coursera Certifications for Machine Learning, Data Science Math Skills, and SQL for Data Science. Sustainability through Soccer: Systems- Thinking in Action
- NPTEL Certifications for Discrete Mathematics, Design and Analysis of Algorithms, Problem Solving through Programming in C