

SURYA NEDIYADETH

Jersey City, New Jersey

(Available Winter 23/Spring 24 for Full Time)

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Education

Master of Science in Computer Science | Stevens Institute of Technology
(w/ Graduate Certificate Program in Machine Learning)

Jan 2022 – Dec 2023
Hoboken, NJ

Relevant courses: Agile Methods for Software Dev, Human-Computer Interaction, Deep Learning, Artificial Intelligence, Natural Language Processing, Database Management Systems II, Intro to Python for Financial App, Intro to Bloomberg & Thomson-Reuters

B. Tech in Computer Science and Engineering | Alliance University

Aug 2017 – Aug 2021
Karnataka, India

Relevant courses: Data Structures and Algorithm, TCP/IP, OOPs using C++, Compiler Design (Unix)

Technical Skills

Programming/Scripting Languages: Python, Java, R, SQL, C, C++

Database Services: MySQL, MongoDB

Web Development: HTML 5.0, XML, CSS, Bootstrap, JavaScript

Tools, Libraries and Framework: GIT, AWS, TensorFlow, Keras, Pandas, NumPy, Scikit-learn, SciPy, Matplotlib, OpenCV, Dlib, Flask, Node.js, React, Django, Pygame

Academic Projects

MQC:

Feb 2023 – May 2023

- Designed and implemented the MQC (Multi-Feature Query Compiler) in Python 3.8 to optimize Ad-Hoc OLAP queries in SQL. Integrated PostgreSQL 15, strategically leveraging key packages reducing development time by 20%.
- Collaborated with a cross-functional team of two to pioneer innovative data manipulation techniques within MQC, simplifying intricate query expressions. The project eliminated the necessity for multiple sub-queries and joins, resulting in a remarkable 30% reduction in query execution times.

critiQs:

Feb 2023 – May 2023

- Developed and led the front-end development efforts for critiQs, a cinephile-focused web app, demonstrating expertise in creating responsive and visually appealing interfaces using HTML, CSS, Bootstrap, JavaScript, and jQuery.
- Collaborated effectively with the team of five to integrate the TMDb API, enriching the user experience with comprehensive movie details. Contributed partially to backend connectivity using Django and SQLite.
- Delivered the project within the 3.5-month timeline, garnering excellent user feedback from 15 reviewers, receiving a 95% satisfaction rate.

RetinaSpec - Classification of Diabetic Retinopathy using Deep Learning Techniques:

Jan 2021 – July 2021

- Led team of three and designed a program classifying retina images given as input according to severity of Diabetic Retinopathy disease
- Utilized Transfer Learning; VGG16, ResNet50, DenseNet201, InceptionV3, InceptionResNetV2, Xception models pre-trained on ImageNet Dataset and assembled these models into a layered ensemble for the Ensemble model, ultimately giving highest accuracy among all models

Experience

Graduate Student Course Assistant | Stevens Institute of Technology, NJ

Sep 2022 – Dec 2022

- Tutor, grader, course preparer, and assignment designer for a class of 89 students
- Conducted office hours to clarify concepts and doubts of students
- Directed students with projects related to data, statistical analysis and machine learning

Web Development Intern | Ethical Edufabrica Pvt. Ltd., Karnataka

Aug 2020 – Oct 2020

- Completed provided training on Web Development by professional mentors
- Studied and engaged in with languages and frameworks such as HTML, SQL, PHP, CSS, Bootstrap
- Created project named "Protein Database Management" according to requirements

Research Intern | National Institute of Technology, Rourkela

Jun 2019 – Jul 2019

- Demonstrated assigned work on "Session-based Recommendation Systems" using GRU model of RNN
- Performed experiments on datasets resulted in marked improvements over common approaches
- Acquired an opportunity to work on Item-based Collaborative Filtering Recommendation Algorithm along with Session-based Recommendation System

Certifications

J.P. Morgan Software Engineering Virtual Experience on Forage

Sep 2023

- Fixed broken files in the repository to make web application output correctly.
- Used JPMorgan Chase's open source library called Perspective to generate a live graph that displays a data feed in a clear and visually appealing way for traders to monitor.

Goldman Sachs Job Simulation on Forage

Sep 2023

- Successfully cracked leaked encrypted passwords using hashcat, demonstrating proficiency in cybersecurity and cryptography.
- Identified the hashing algorithm used (MD5) and provided recommendations for enhancing password protection policies.
- Acquired skills in Cryptography Basics, showcasing expertise in data security.
- Demonstrated Password Best-Practice knowledge, ensuring strong authentication methods.
- Executed Password Cracking techniques, highlighting proficiency in security testing.

Bloomberg Market Concepts (BMC) Certification, Bloomberg L.P.

Nov 2023

- Comprehensive understanding of financial markets across Economic Indicators, Currencies, Fixed Income, and Equities.
- Analysed economic cycles, currency market dynamics, bond market valuation, and equity market strategies.
- Proficient in over 70 Bloomberg Terminal functions for data analysis and interpretation within financial services.