

SURYA “BEN” NEDIYADETH

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Education

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

January 2022 – December 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

August 2017 – August 2021

Relevant courses: Data Structures and Algorithm using C++, Algorithm Design and Analysis, Object-Oriented Design, Distributed Systems, Relational Database Management System, TCP/IP, Compiler Design (Unix)

Karnataka, India

Technical Skills

Programming: Python, Java, SQL, JavaScript, React.js, TyprScript, HTML/CSS, XML, C++

Frameworks: Django, Flask, Spring Boot, FastAPI, Node.js

AI/ML: TensorFlow, PyTorch, OpenAI API, Transformers, BERT, BART, PEGASUS

Cloud: AWS (EC2, S3, RDS), Docker, Kubernetes

Databases: PostgreSQL, MySQL, MongoDB

Testing: Unit Testing (JUnit, pytest, unittest), Integration Testing

Tools: Git, Gitlab, Jira, Jenkins, Selenium, Docker, CI/CD (GitHub Actions), Vim, VS Code, Postman, Linux

Experience

Multi-Project Fellow (Software Engineer) | Third Estate Ventures, Inc., NY

February 2024 – February 2025

- Led development of 2 data-driven projects, processing datasets with over 500,000 data points to create interactive dashboards for real estate insights, improving decision-making for over 4 stakeholders.
- Leveraged ARIMA-based machine learning models for trend identification and business metric definition enhancing predicting analytics, using Python and SQL for optimized strategic decision-making.

Graduate Student Course Assistant | Stevens Institute of Technology, NJ

September 2022 – December 2022

- Fulfilled multiple roles including tutor, grader, course preparer, and assignment designer, enhancing the learning experience for a class of 89 students.
- Enhanced student comprehension and project success rates through dedicated weekly office hours, resulting in a 10% uplift in class grades and a 15% increase in successful data-related project submissions.

Software Development Engineer | Pratap Lighting, Gujarat

November 2020 – December 2021

- Established and maintained customer-facing e-commerce platform using React and Node.js, improving order processing time by 30% and driving a 15% increase in customer engagement.
- Collaborated cross-functionally with sales and support teams to gather customer feedback and iterated on the platform's features, resulting in a 20% reduction in support tickets related to order issues.
- Optimized backend infrastructure by refactoring database queries and implementing caching mechanisms, reducing page load times by 35% and improving overall site performance.

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

August 2020 – October 2020

- Completed professional web development training, acquiring skills in HTML, SQL, PHP, CSS, React.js, and Bootstrap.
- Designed and implemented a "Protein Database Management" project, handling over 50,000 protein entries utilizing learned languages and frameworks, reducing search and retrieval time by 30%, meeting specified requirements.

Research Intern | National Institute of Technology Rourkela, Odisha

June 2019 – July 2019

- Advanced "Session-based Recommendation Systems" by implementing and refining GRU-based RNN model, increasing recommendation accuracy by 25%, achieving significant improvements over traditional methods through dataset experimentations.

Academic Projects

KarmBot — Job Application Automation Bot

July 2024 – October 2024

- Developed an intelligent job application bot leveraging Selenium and OpenAI's API for scraping, analyzing, and applying to jobs.
- Designed a multithreaded architecture that streamlined over 100 automated job relevance checks per day, optimizing resume selection, cover letter generation, and notification systems.
- Implemented PostgreSQL for tracking over 100 job applications, resulting in a 40% reduction in manual processing time and improved efficiency of job application process.
- Integrated a C++ performance module, developing a lightweight system to track execution times for job scraping and database interactions, enhancing monitoring efficiency by 25% and integrating seamlessly with Python architecture using Pybind11.
- Tech stack:** Selenium, LLMs(OpenAI API), Python, NLP, PostgreSQL, REST APIs, Multithreading, C++.

SummarizeMaster (Version 0.1):

May 2024 – June 2024

- Engineered an advanced text summarization package using PEGASUS and BART, leveraging multiple datasets, improving summarization accuracy by 30%.
- Utilized Python, Hugging Face's Transformers, and custom datasets, combined with Docker, AWS EC2, and FastAPI for scalable deployment and CI/CD pipelines for streamlined integration.
- Tech stack:** Python, Transformers, AWS, Docker, FastAPI.