Nidarsh Nithyananda

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Summary

Software Engineer and Machine Learning professional with expertise in full-stack development, microservices, and AI/ML model implementation. Skilled in Python, Java, CI/CD, and cloud infrastructure. Proven ability to optimize systems, automate processes for improved performance and collaborate with cross-functional teams. Eager to contribute my technical expertise to drive innovation and support the company's vision, while continuously growing in the AI and tech space.

Skills

Python | Java | C++ | SQL | Javascript | Numpy | Pandas | Scikit-Learn | Keras | Tensorflow | Pytorch | Matplotlib | Tableau | Generative AI (GenAI) | Large Language Modelling (LLM) | Computer Vision | Natural Language Processing | HTML | CSS | Tailwind CSS | Node JS | Spring Boot | React | Next.js | Flask | MongoDB | MySQL | Oracle 11g | PostgreSQL | AWS (IAM | EC2 | Lambda | RDS | SES | SNS) | Docker | Jenkins | Git | Communication | Teamwork | Problem-solving | Adaptability | Time Management | Critical Thinking | Attention to Detail | Collaboration | Creativity | Leadership

Experience

Thaniya Technologies Mangaluru, India
Software Engineer (Freelance) Jul 2022 – Present

- Developed a Python-based role-playing game (RPG) tailored to client requirements, achieving a 95% customer satisfaction rate.
- Delivered a deep learning computer vision project for disease leaf detection, which enabled the client to implement the most effective solution in their agriculture industry, improving crop health monitoring and decision-making by 20%.
- Reduced project development time by 15% and improved overall efficiency through agile methodologies, while providing post-deployment support that ensured a seamless transition and enhanced client understanding of the solution.

Tech Mahindra Pune, India
Software Engineer Dec 2021 – Jun 2022

- Conceptualized and developed a microservices architecture and scalable APIs, adhering to OWASP guidelines, which reduced security vulnerabilities by 30%.
- Collaborated with cross-functional teams to design and implement components for an online ordering system, leading to a 20% reduction in customer checkout time.
- Coordinated the Kubernetes migration, performing regular builds and system tests, and optimized continuous delivery processes using Jenkins, ensuring seamless integration.

IBM Bengaluru, India
Application Programmer (Java Full Stack) Aug 2019 – Dec 2020

- Developed JSP, React, and Spring Boot components, which enhanced system response time by 20%, resulting in a better user experience for an e-commerce platform.
- Automated log fetching and root cause analysis processes using Python, which saved 35 hours of manual work per week, enabling quicker issue resolution.
- Partnered with testing and infrastructure teams to streamline Agile development, and improved CI/CD practices, reducing time to market for new features by 10%.

Sahyadri College of Engineering & Management Mangaluru, India
Research Assistant Aug 2018 – May 2019

- Researched and evaluated various supervised classifiers to analyze EEG signals and accurately differentiate between alcoholic and non-alcoholic subjects, resulting in a classification accuracy of 92%.
- Streamlined data cleaning and feature engineering procedures through the implementation of Python scripts, resulting in a 70% reduction in manual effort and an estimated monthly time savings of 100 hours.
- Presented research findings at AIDE-19 conference, resulting in the publication of the paper in Advances in Intelligent Systems and Computing (AISC, volume 1133), Springer, Singapore.

Volunteering

Sahyadri Open Source Community (SOSC) Mangaluru, India
Mentor Oct 2018 - Jan 2019
Mentored budding developers during Hactober Fest 2018 and Cognit'19 2019 at Sahyadri College of Engineering and Management, Mangaluru.

Education

University of Alabama at Birmingham Birmingham, Alabama
Master of Science, Computer Science GPA 3.7
Relevant Coursework: Machine Learning, Natural Language Processing, Advance Algorithms, Database Systems, Advance Object Oriented Programming with C++, Matrix Algorithms for Data Science, Deep Learning, Cloud Computing

Sahyadri College of Engineering and Management Mangaluru, India
Bachelor of Engineering, Computer Science and Engineering GPA 7.32
Relevant Coursework: Data Structures and Applications, Software Engineering, Design and Analysis of Algorithms, Database Management Systems, Artificial Intelligence, Computer Graphics and Visualization, Unix and Shell Programming, Big Data Analytics

Publications

Exploring the Performance of EEG Signal Classifiers for Alcoholism Aug 2020
Advances in Artificial Intelligence and Data Engineering, Advances in Intelligent Systems and Computing, vol 1133. Springer, Singapore. https://doi.org/10.1007/978-981-15-3514-7_12

Certificates

Generative AI Fundamentals, Google Cloud Skills Boost, Google Jun 2023
AWS Certified Cloud Practitioner, AWS, Amazon May 2023 - May 2026
Deep Learning Specialization, DeepLearning.ai and Coursera Apr 2020
Advanced Data Science with IBM, IBM and Coursera Sep 2019

Projects

SimplyShare - Cloud based file sharing Aug 2024
Skills: Python, Flask, HTML, CSS, Javascript, AWS (EC2, Lambda, SES, RDS)
Github Repo: https://github.com/NidarshN/simplyShare

Engineered a user-friendly interface that allows users of all technical levels to effortlessly upload, download, and share files with customizable access controls.

- Implemented scalable storage solutions using AWS S3 and AWS RDS, enabling flexible storage options that adapt to the needs of solo users and large enterprises.
- Integrated AWS SES for secure email notifications, ensuring real-time updates for shared files and collaborative activities.
- Deployed the application on AWS EC2, ensuring high availability and robust performance across various devices.

Extractive and Abstractive Summarization on BBC News Corpus Aug 2022
Skills: Python, Pytorch, NLTK, Transformers, Lightning AI, Git, Hugging Face
Github Repo: https://github.com/NidarshN/text-summarization-extractive-abstractive

To study the performance of the extractive, abstractive and its ensemble summarization on the BBC News Corpus.

- Conducted comprehensive exploratory data analysis (EDA) on the BBC News Corpus, identifying key patterns and trends that informed subsequent feature engineering decisions.
- Implemented an ensemble pipeline for the execution flow, increasing the overall efficiency of the machine learning process by 10%.
- Analyzed the performance of T5, PageRank, BERT pre-trained large language models after retraining on the BBC News Corpus.

Exploring the Performance of EEG Signal Classifiers for Alcoholism May 2019
Skills: Python, Scikit-learn, Numpy, Pandas, Flask, Git
Github Repo: https://github.com/NidarshN/EEG_Classifiers

Evaluated the performance of supervised classifiers by analyzing their ability to differentiate between brain signals of alcoholic and non-alcoholic subjects to detect alcoholic predisposition.

- Developed Python scripts to efficiently sort large EEG datasets and performed data preprocessing using techniques such as normalization, noise reduction, and feature scaling, ensuring optimal data quality.
- Programmed machine learning algorithms, improving data accuracy and efficiency, resulting in a 60% increase in predictive modeling performance.
- Implemented and analyzed the performance of supervised learning classifiers including Support Vector Machine, K-Nearest Neighbors, Naive Bayes, and Artificial Neural Networks using the Race Algorithm.