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SKILLS

Web Development: MERN Stack (MongoDB, Express.js, React, Node.js), Next.js, Vue.js, Redis, RESTful API Development

Machine Learning: Deep Learning, NLP, Computer Vision, AI, Tensorflow, PyTorch, Scikit-Learn, Keras, Pandas, NumPy

Technologies: Git, AWS, Docker, Kubernetes, Agile methodologies, Scrum, JIRA, Linux/Unix Systems

Programming Languages & Frameworks: Python, C++, Java, JavaScript, TypeScript, HTML, CSS, Haskell, PHP, .NET

Additional Skills: Responsive Web Design, API Integration, Microservices Architecture, DevOps Practices

EDUCATION

Syracuse University, College of Engineering and Computer Science

May, 2024

MS, Computer Science

Syracuse, NY

Design and Analysis of Algorithms, Data Science, Operating Systems, Object Oriented Design, Computer Architecture, Database Management Systems, Structured Programming, Machine Learning, Cryptography, Natural Language Processing

University of Mumbai, Pillai College of Engineering

July 2022

BE, Information Technology

Mumbai, India

AI, Computer Vision, Image Processing, Machine Learning algorithms and Web/Mobile programming

PROJECT EXPERIENCE

MERN Stack E-Commerce Service App with Stripe

- Developed a React.js and Node.js thrift store application, integrating technologies such as MongoDB for database management, Express.js for server-side logic, and Stripe for payment processing.
- Designed and implemented RESTful APIs using Express.js, enhancing the application's functionality and user interaction.
- Implemented secure authentication using JWT and cookies, real-time chat functionality, image uploading with Cloudinary, a review and rating system and employed React Query for efficient data synchronization and state management.

AI Chatbot : Next.js, OpenAI, and Vector Embeddings

- Led the development of an AI chatbot using Next.js 14, setting up the project environment, integrating Shadcn UI for a sleek user interface, and implementing a responsive notes layout for enhanced user interaction.
- Configured MongoDB Atlas and Prisma for efficient data management and implemented Clerk for secure user authentication
- Integrated OpenAI and Pinecone to create sophisticated vector embeddings, enabling the chatbot to respond intelligently to user queries. Utilized the Vercel AI SDK for OpenAIStream showcasing skills in AI integration and deployment in web applications.

Optimization Analysis of SVM and Logistic Regression for Digit Recognition

- Programmed a Support Vector Machine (SVM) model to classify handwritten digits, employing GridSearchCV and executed an advanced Logistic Regression model for digit recognition, achieving an accuracy of 91.97%.
- Demonstrated expertise in testing models with real-time data, ensuring robustness of algorithms. Employed cross-validation and ROC-AUC analysis for comprehensive model assessment, improving accuracy from 91% to 98% with SVM model

INTERNSHIP EXPERIENCE

Foxmula

December 2020

Machine Learning Intern

Mumbai, India

- Programmed a Credit Card Fraud Detection project, achieving high accuracy in identifying unauthorized transactions
- Attained Microsoft Technology Associate Certification, underscoring proficiency in Python and ML algorithms

Syracuse University School of Education

January 2023

Student Support Assistant

Syracuse, NY

- Mentor and guide undergraduate students with coursework, internships and technology-related inquiries and challenges.

COURSES

- Deep Learning Essentials with Keras, Issued by edX, Authorized by IBM
- Machine Learning Algorithms: Supervised Learning Tip to Tail, Coursera
- Introduction to Applied Machine Learning, Python Functions Files Dictionaries and Python Basis, Coursera

PUBLICATIONS

Published a machine learning paper 'Indian Sign Language Translation for Hard-of-Hearing and Hard-of-Speaking Community' in the International Research Journal of Engineering and Technology (IRJET) journal.