

SHASHANK SHANKAREGOWDA

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EDUCATION

- **Master of Science: Computer Science (AI track), University at Buffalo**, The State University of New York, **Graduated:** January 2024, GPA: 3.6
Coursework: Machine Learning, Data Intensive Computing, Analysis of Algorithms, Computer Security, Operating Systems, Project Management, Deep Learning, Data Models and Query Languages, Computer Vision and Image Processing.

WORK EXPERIENCE

Software Engineer, Datalyzer International Inc., Bengaluru, India: May 2021 – July 2023

- Experienced full-stack developer proficient in building scalable web applications using Node.js, Angular, React, and RESTful APIs using .NET C# and Python.
- Designed and optimized relational database schemas in SQL for high transaction volumes, ensuring data integrity, scalability, and performance with expertise in databases like MySQL and PostgreSQL.
- Collaborated in Agile development processes, including sprint planning, daily stand-ups, and retrospectives, delivering solutions on time.
- Implemented lazy loading and strategic optimizations to reduce model inference times by 50%, resulting in a 25% increase in user engagement for AI-powered applications.
- Engineered secure and robust backend infrastructures capable of handling high-transaction data flows, enhancing system stability and reliability across all endpoints.
- Analyzed and improved backend architecture to optimize computational resource utilization, reducing server costs and improving response times for real-time AI applications.

Coding Instructor, BrightChamps Pvt. Ltd., Bengaluru, India(Part-time): March 2021 – April 2022

- Accumulated over a year of experience in an Ed-Tech company, specializing in instructing a wide range of technologies including HTML, CSS, JavaScript, Machine Learning, AR/VR, Python, C++, and Data Visualization techniques.
- Instructed diverse groups of up to 15 students per session on building real-world software projects; facilitated hands-on learning that empowered each student to create at least two functional applications during the course.

ACADEMIC PROJECTS

Colorizing Black & White Photos using Deep Learning

- Utilized advanced deep learning models, particularly conditional GANs, for image colorization, leveraging the Lab color space to achieve natural and visually appealing color predictions.
- Introduced an innovative approach to model training that significantly reduced the need for large datasets and training time, marking a notable advancement in AI-driven image processing.

Hand Signal Recognition for Alphabet Using Computer Vision

- Developed a real-time hand signal recognition system to classify ASL alphabet gestures, enabling effective communication for individuals with hearing impairments in various settings.
- Integrated a convolutional neural network (CNN) trained on a custom dataset, achieving high accuracy in recognizing ASL gestures and ensuring robust performance in varying lighting and backgrounds.

Price Prediction System using Machine Learning Models.

- Conceived a machine learning-based price prediction system utilizing Python Flask for the frontend, Integrated data visualization libraries into the frontend to provide users with insightful visual representations of the predicted price trends.

Library Management System

- Designed and implemented an enterprise-grade Library Management System with robust RESTful API integration using .NET C# and a React frontend. Achieved efficient data management and seamless user interaction

SKILLS & TOOLS

Languages & Database: Python, .Net, C#, C++, MySQL, SSMS, PostgreSQL, MySQL.

Web Development: HTML, CSS, JavaScript, TypeScript, Node.js, React.js, Angular, Web API

Software Framework: Hadoop, PySpark, Docker, Flask, PyTorch, TensorFlow, Scikit-learn, Nest.js. Power BI

Others: Data Structures Algorithms, Linux, Rest APIs, Git, Docker, Webpack, Postman, AWS, Microsoft Azure, Bitbucket, ASP.NET.