ARUN SATISH RAO

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EDUCATION

Master of Science in Computer Science August 2022 - May 2024
California State University, East Bay Hayward, CA
GPA: 3.63/4

Bachelor of Engineering in Computer Science and Engineering August 2018 - June 2022
NMAM Institute of Technology Karnataka, India
GPA: 8.31/10

EXPERIENCE

Teaching Associate, *Cal State East Bay* January 2024 - Present
- Instructed students as a Teaching Associate for CS201: Computer Science II course, operating under the supervision of Professor Manny Kang.
- Facilitated hands-on lab sessions for CS201: Computer Science II course, guiding students in acquiring and implementing programming skills in C++ and evaluating weekly assignments assigned by the professor.
- Created an interactive learning environment to encourage student engagement and success..

Front End Developer, *Freelance* June 2023 - December 2023
- Designed, developed, and delivered customized portfolio websites for clients, ensuring adherence to specific requirements and brand guidelines.
- Implemented a comprehensive tech stack, incorporating React.js, Node.js, JavaScript, CSS, and MySQL to develop 10+ responsive and visually appealing web interfaces.
- Spearheaded the design and development of an e-commerce website for a local business, resulting in a 30% increase in online sales within six months of launch, attributed to the implementation of intuitive user experience and seamless functionality.
- Demonstrated proficiency in project management, collaborating closely with clients to gather requirements, provide regular updates, and deliver solutions within agreed timelines.

Android App Developer Intern, Blueline Computers June 2021 - August 2021
- Incorporated Kotlin and Android app development to engineer customized mobile applications, yielding a marked increase in user engagement and achieving a 20% reduction in app loading time, consequently elevating overall user experience and satisfaction.

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, Java, HTML, CSS, C++, C
- **Web Technologies:** NodeJs, ReactJS, JSON
- **Database Technologies:** MySQL, MongoDB, Firebase Realtime Database
- **Data Science Technologies:** NLP, Machine Learning
- **Others:** Version Control(Git), System Design, Linux, Data Structures, and Algorithms

PROJECTS

Text summarization using NLP for Heart Disease Prediction
- Facilitated communication between doctors and patients, resulting in a 20% reduction in appointment scheduling time and a 15% increase in patient satisfaction scores.
- Engineered an NLP model achieving a 25% reduction in medical report processing time and predicting heart disease with 90% accuracy based on patient data summaries.
- Employed advanced machine learning algorithms including KNN, Random Forest, and Support Vector Machines (SVM) to achieve a 15% improvement in accuracy compared to baseline models when classifying heart disease risk factors.

E-commerce Website
- Designed an e-commerce website for a local business with the aim of enhancing online presence and driving sales.
- Executed the implementation of a contemporary and user-friendly interface employing technologies such as React.js, Node.js, JavaScript, Bootstrap, and CSS. This strategic endeavor yielded a significant 30% upsurge in website traffic during the initial month post-launch, fostering heightened user engagement and satisfaction..
- Integrated back end functionalities using PHP and MySQL to manage product listings, orders, and customer data securely, reducing manual workload by 40%.
- Employed responsive design principles to optimize the website for various devices, resulting in a 25\% increase in mobile conversions.
- Collaborated closely with the client to understand the requirements and preferences, delivering a tailored solution that met the business objectives and led to a 50% increase in online sales revenue within six months.

Car Price Prediction
- Directed the utilization of machine learning strategies to build a predictive model for forecasting car resale prices with an error rate of less than 5%, empowering buyers and sellers with precise data-driven information to make strategic decisions.
- Engineered the application utilizing transfer learning techniques within machine learning, achieving a significant 30% reduction in training time and a 25% increase in prediction accuracy compared to baseline models, thereby showcasing the efficiency and effectiveness of advanced algorithms in practical implementations.
- Prepared detailed reports and a research paper, Learnings Takeaways: Designing prediction models using machine learning.