

Jaggannadhan Venugopal

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SKILLS

Languages : Python, JavaScript, SQL, NoSQL, HTML, CSS, SSML
Frameworks/Services : Flask, Django, React-Redux, Node.js, TensorFlow, PyTorch, PySpark, GCP
Testing : PyTest, React Testing Library, Jest
Others : GIT, Agile, Test-Driven Development, Microservice Stacks, API Integration,

EDUCATION

Master of Science in Computer Science, University of Massachusetts, Boston, MA Sep 2022 - May 2024
Bachelor of Engineering in Computer Science, Sri Venkateswara College of Eng. & Tech Sep 2012 - May 2016

WORK EXPERIENCE

Software Developer Intern, Gao Tek Inc., New York, NY Jun 2023 - Sep 2023

- Performed prompt engineering to enhance the quality and relevance of the product descriptions significantly improving customer engagement to 97%.
- Optimized the product sourcing pipeline by vetting product descriptions and selecting top-tier suppliers thereby reducing procurement time by 20% and improving product quality consistency by 15%.

Software Engineer, AnywhereWorks Inc. Mar 2018 - Aug 2022

- AnswerConnect: Implemented a suite of **micro front-end (MFE) applications** to promote business collaboration and networking between clients and their customers, resulting in a revenue increase of \$2.5 million each year.
- Initiated and crafted a real-time usage tracking system for AnswerConnect using **Elasticsearch**, to measure and analyze throughput, resolving net service loss by 70% and improving customer retention and lifetime value (CLTV).
- Engineered a 35% reduction in communication delays between business clients and their customers, by building a suite of web apps such as two-way SMS using **Twilio REST APIs**.
- Supervised and mentored incoming software engineers and interns on network security standards, version control, maintaining code coverage of 75%, and **CI/CD pipelines**.

ACADEMIC PROJECTS

- Fact Extraction using LLM**: Designed and hosted an **online chat-bot using OpenAI**, that processes text-based call logs to extract factual information and generates responses based on the extracted data.
- Real Estate Investment Research**: Engineered a web application to project Return on Investments (ROI) of real estate properties, primarily focusing on properties with annual returns greater than 8%, using machine-learning over regional, historical data thereby making investing a hassle-free process for both experienced and novice investors.
- Athletic Performance Estimator**: Formulated an ensemble machine-learning model to predict fitness level of athletes based on physical/physiological determinants with an average ROC of 0.81, using the Korean Sports Federation dataset.
- Emotion Recognition**: Constructed a deep-learning model to predict human facial expressions such as anger, happiness, disgust, fear, and sadness with a predictive accuracy of 0.74 using CNNs.

COMMERCIAL PROJECTS

- Consilium Intelligence**: Conceptualized and designed a UI for a big data application which aims to match industry talent with recruiters in real time through requirement identification and analysis.
- Developer Documents**: Conceived and implemented web application to automate secure storing and instantaneous sharing of API endpoints within/across organizations in AnywhereWorks using OAuth 2.0.

ACHIEVEMENTS

- Pioneered the establishment of the first Jiu-Jitsu club at UMass Boston in 2022, serving as the President and fostering a community of martial-art enthusiasts promoting physical and mental well-being.
- Attained the esteemed Governor's Award (Rajya Puraskar) in Bharat Scouts and Guides in 2014, recognizing exemplary leadership, teamwork, and contributions to community fostering a positive change.
- Received a black-belt in Karate, demonstrating dedication and mastery of the Shito-Ryu style in 2010.