VIDYASHREE KADOLKAR

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PROFESSIONAL SUMMARY
Results-driven change agent seeking for data engineering and software development opportunities

Proven talent for aligning business strategy and objectives with established software development and operations management paradigms to achieve maximum operational impacts with minimum resource expenditures. Growth-focused thought leader with expertise spanning machine learning, artificial intelligence, Python, AWS, data analysis, software development life cycle, team leadership, operations optimization, cross-functional team collaboration, web development, technology solutions, and project management. Exceptionally dedicated professional with keen interpersonal, communication, and organizational skills.

TECHNICAL PROFICIENCIES

- <u>Programming</u>: Python (expert), SQL, Java
- <u>Technologies</u>: Machine Learning, Data Analytics, AWS, Selenium, Adobe Illustrator, Git, Jenkins, Jira, Oracle DB, Postgres, JavaScript, HTML, CSS, Docker, BI Reporting, Android, Espresso, JUnit, QTP
- <u>Web Frameworks</u>: Django, Flask
- <u>Python Libraries</u>: Numpy, Pandas, matplotlib, sklearn, nltk, textblob, Python Imaging Library (PIL)

CERTIFICATIONS

- AWS Certified Developer – Associate
- Application Tester Certification by Accenture and Massachusetts Institute of Technology

EDUCATION AND CREDENTIALS

MASTER OF SCIENCE (M.SC.) IN COMPUTER SCIENCE, DECEMBER 2019   GPA: 4.0
Georgia Institute of Technology (Georgia Tech), Atlanta, USA

BACHELOR OF SCIENCE (B.SC.) IN COMPUTER SCIENCE ENGINEERING, JUNE 2012   GPA: 4.0
SDMCET, Dharwad, India

PROFESSIONAL EXPERIENCE

ACCENTURE, BANGALORE, INDIA, June 2012 to April 2017
SOFTWARE ENGINEER
- Served as key contributor in complete software development life cycle from requirements gathering and analysis, design, development to testing.
- Participated in code reviews to resolve technical issues and ensure adherence to business requirements.
- Directed the team tasked with creating and optimizing Gherkins for user stories, designed and implemented automation architecture and suite using Selenium, Jenkins and Object-Oriented Programming concepts as part of ATDD methodology.
- Responsible for designing and implementing SQL queries using MySQL in over 5 applications.
- Identified critical defects through Oracle database testing to boost the client's credit decision system's compliance quotient from 60% to 85%.

- Executed comprehensive root cause analysis and business impact analysis through testing and fixing bugs on 20+ time and business critical hotfixes for fare management system client on both Windows and Linux systems.
- Conceptualized, created, and maintained more than 100 test scripts for a financial firm's legal application utilizing HP Quick Test Professional automation tool to facilitate automated regression, decreasing all manual work by 70%.
- Defined and deployed 3000+ test scripts and maintained the Requirements Traceability Matrix. Spearheaded triage calls to enable defect closure.
- Determined and outlined test estimation, designed, and implemented the test plan for both financial and digital clients and headed testing teams with team size varying from 5 to 12 members.

ACADEMIC EXPERIENCE

MSCS GRADUATE STUDENT, GEORGIA TECH, ATLANTA, GA, August 2017 to Present

FHIR – A SIMPLE SOLUTION to COMPLEX CARE:
- Served as a full-stack developer as part of a collaborative team charged with building a care coordination application for Anthem, to enable healthcare providers to deliver quality care and simultaneously reduce spending costs.
- Developed the application in Python using Django framework and Docker with Bootstrap and JavaScript for frontend development, later deployed in HDAP (Health Data Analytics Platform) environment.
- Enabled the application to use FHIR integration for real time updates to synchronize patient data using RESTful APIs and Postgres database to effectively capture session notes and Zoom video chat integration for care coordination among healthcare providers.

CHATBOT:
- Created and developed a chatbot in Python with TextBlob and Word libraries using Natural Language Processing (NLP) to classify the input in JSON files utilizing a probabilistic approach that responded with 90% accuracy.
- Designed the chatbot to learn from user feedback in real time and update the intent and entity details.
- Engineered to be integrated with APIs of chat platforms such as Slack or Hangouts.
- Recognized among the top 10 chatbots in the class.

SUPERVISED LEARNING in MACHINE LEARNING:
- Completed implementation and analysis of Supervised Learning algorithms, including Decision trees with minimum-error pruning, Artificial Neural Networks, Adaptive Boosting, Support Vector Machines with Linear and Radial Basis Function (RBF) kernels, and k-Nearest Neighbors using sklearn library.
- Incorporated investigation of learning curves, confusion matrices, time complexities, and tuning of hyperparameters that affect the performance of the algorithms into the analysis.

PORTFOLIO OPTIMIZATION:
- Formulated and developed a Strategy Learner, that encompassed a Bag Learner and a Random Tree Learner.
- Planned the algorithm to assess the value of the portfolio and allocate funds to the equities in the portfolio, maximizing the investment performance, based on four years of historical stock data, using Python's NumPy, Pandas, and SciPy libraries and visualized optimized output using matplotlib libraries.
- Feature engineering techniques of Numerical Imputation and Scaling are used for data preprocessing.

VOLUNTEERISM

- Member of AnitaB.org and Systers group
- Planned and organized International Women's Day event for women engagement at Accenture.
- Started an environment-friendly project as an entrepreneur under LEAD, a youth- leadership program at Deshpande Foundations.