AKSHAY SHIRAHATTI

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EDUCATION

SYRACUSE UNIVERSITY | M.S. - Computer Science (3.5/4) | Syracuse, USA **Aug 2022 – Present**

Relevant Coursework- Design and Analysis of Algorithms, Operating Systems, Structured Programming, Social Media Data Mining, Computer Architecture, Introduction to Cryptography

UNIVERSITY OF MUMBAI | B.E. – Computer Engineering (CGPA: 8.31/10) | Mumbai, India **Aug 2016 – Oct 2020**

Relevant Coursework- Data Structures and Algorithms, Advanced Algorithms, Database Management Systems, Data Warehousing and Mining, Operating Systems, Computer Networks, Distributed Computing, Object Oriented Programming, Machine Learning, Artificial Intelligence, Big Data Analytics, Natural Language Processing

PROFESSIONAL EXPERIENCE

ACCENTURE | Associate Software Engineer | Mumbai, India **Mar 2021 – Apr 2022**

- Developed billing system which currently processes millions of transactions/day thereby reducing time required to generate invoices by 20%
- Conducted thorough testing and troubleshooting to identify and resolve issues, resulting in reduced processing time by 60%
- Provided technical support to end-users, resolving issues within an average of 24 hours
- Utilized Agile methodology and project management tools to manage project timelines and deliverables, resulting in a 90% on-time project delivery rate
- Supported the seamless integration of college students into the company's values and work environment through comprehensive onboarding and individualized mentoring, aimed at fostering a culture of growth and collaboration

INTERNSHIPS

THE SPARKS FOUNDATION | Data Science and Business Analytics Intern| Mumbai, India **Feb 2021 – Mar 2021**

- Conducted Data Preparation, Cleaning and Exploratory Data Analysis on Sports data which led to the discovery of key trends and patterns
- Used statistical and visualization techniques such as Box Plots, Scatterplots, and Bar graphs to communicate complex findings and insights to stakeholders, resulting in 20% improvement in business processes

SIES GRADUATE SCHOOL OF TECHNOLOGY | Data Science Trainee | Mumbai, India **Dec 2018 – Jan 2019**

- Built a machine learning model to predict house prices, achieving a model accuracy of 85% on the Kaggle dataset
- Employed Random Forest, a classification and prediction algorithm, reducing the time taken to generate predictions by 25%
- Evaluated model performance using various metrics such as mean squared error (MSE), root mean squared error (RMSE), and R-squared, and iteratively refined the models based on feedback and results

CENTRAL RAILWAYS OF INDIA | Software Engineering Intern | Mumbai, India **Jun 2018 – Jul 2018**

- Designed the Database Schema and developed RESTful APIs for an employee organization management system, improving data accessibility by 30% and reducing data retrieval time by 20%
- Worked closely with the JavaScript front-end development team to ensure seamless integration of the APIs, resulting in 25% reduction in development time

PROJECTS

JSON Schema Validator **May 2023 – June 2023**

- Created a robust JSON schema validator using Go programming language. This validator effectively validates incoming JSON data against a predefined schema, ensuring data integrity and accuracy.
- Integrated JSON schema validator with MongoDB for efficient data storage, enabling reliable and scalable management of validated JSON requests.

Emotional Analysis of Covid-19 Tweets **Jan 2023 – May 2023**

- Conducted sentiment and emotion analysis on COVID-19-related tweets using LDA topic modeling and DistilRoBERTa, achieving 87% accuracy in sentiment classification and identifying dominant emotions of happiness, sorrow, and fear, while extracting data from Twitter using the API
- Applied visualization tools such as word clouds and heat maps to identify trends and patterns in the emotional content of the tweets, which can inform the development of evidence-based interventions and support strategies to address the unique emotional and psychological needs of individuals and communities affected by COVID-19.
- Leveraged insights gained from sentiment and emotional analysis to potentially contribute to improved public health outcomes, such as reduced anxiety and depression, increased social support and resilience, and overall well-being for individuals and communities affected by COVID-19.

Early-Stage Detection of Chronic Kidney Disease **Jan 2020 – Jul 2020**

- Developed and implemented a machine learning classification algorithm to predict Chronic Kidney Disease with over 91% accuracy, using a dataset based on clinical history, Electronic Medical Records (EMR), and laboratory tests.
- Designed a system that extracts features responsible for CKD, classifies the disease into different stages according to severity, and provides personalized diet recommendations for patients based on their disease classification.

TECHINICAL SKILLS

- Development: Python, Java (Spring Boot), Go Lang, R, C, Javascript/Typescript(NodeJS/ReactJS), HTML5, CSS3
- Databases: MySQL/PLSQL/MSSQL/PostgreSQL, MongoDB, Snowflake
- Tools: Selenium, UFT, JMeter, JUnit, Cucumber, Gitlab, Jenkins, Docker, Kubernetes, Jupyter Notebook, Apache Kafka, Apache Spark
- Project Management Tools: Jira, Confluence, Miro, Trello
- Others: Agile Methodologies, Hadoop, Hive, TensorFlow, PyTorch, CI/CD, AWS (S3, Dynamo, Athena, Lambda, Redshift), Tableau, REST APIs

LEADERSHIP

- **COMPUTER SOCIETY OF INDIA |** Joint Treasurer | Mumbai, India **Jan 2019 – Oct 2020**
- **STUDENT COUNCIL – SIES GRADUATE SCHOOL OF TECHNOLOGY |** Publicity Head | Mumbai, India **Jun 2017 – May 2018**

CERTIFICATIONS

- Data Science and Machine Learning using Python, Google Go Lang, Java, Software Product Management, R Programming, Apache Spark, Apache Kafka, AWS certified Cloud Practitioner, Advanced Robotic Process Automation (RPA) Professional