RAHUL BHIWANDE

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EDUCATION

Northeastern University, Boston, MA
Master of Science in Information Systems   **GPA: 3.69 / 4.00**   Expected Graduation Date: April 2023

Relevant Courses: Database Management and Database Design, Program Structures and Algorithms, Designing Advanced Data Architectures for Business Intelligence, Data Science Engineering Methods and Tools, Application Engineering and Design

University of Mumbai, Mumbai, India   June 2015 - June 2019
Bachelor of Engineering in Computer Science

TECHNICAL SKILLS

Programming Languages: JAVA, SQL, Python, HTML, CSS, C
Database: MongoDB, MySQL, Oracle DB, Microsoft SQL Server
Development Tools: GitHub, Azure, Amazon Web Services, Google Cloud Platform, Power BI, Tableau, Linux, SSMS,SSIS
ML Frameworks: Keras, PyTorch, Scikit-learn, Matplotlib, TensorFlow, Theano

WORK EXPERIENCE

APSIT Skills, *Machine Learning Intern,* Mumbai, India   June 2020 – July 2020
- Developed a **classification** model in **Python** to identify **2** types of breast cancer (benign or malignant)
- Oversaw a team of **3** guiding and mentoring them in development process
- Operated on a dataset of over **6000** images consisting of **40** different plant species obtained using web scraping and data mining
- Explored ML techniques such as, "**Exhaustive Search**", "**Gradient Descent**" in-depth for optimization purposes
- Surpassed expectations of mentors in creating a model with extensive visual analysis explaining flow of system
- Attained **95%** accuracy for different models such as **Logistic Regression**, **Random Forest**, **Gaussian Naïve Bayes**, **KNN**

Tata Consultancy Services Ltd, *Software Engineer,* Mumbai, India   June 2019 – January 2020
- Enhanced existing **4 REST JAVA APIs** by implementing proper **auditing** and **logging** of data
- Redesigned "**Vehicle-life cycle**" API's **SQL** mechanism resulting in **20%** faster processing
- Resolved incorrect data received in "**Service Quality and Data Feed**" API resulting in **45%** faster processing
- Diagnosed problems in **7** APIs and reduced delay by **20%** in client-side processes
- Mentored a team of **4** in corrective action analysis for a total of **250** failed test cases
- Demonstrated excellent programming skills by handling a total of **5 JAVA APIs** and improving each API runtime by **60%**

ACADEMIC EXPERIENCE & PROJECTS

24-7 Healthcare Management system (*JAVA, Power BI, Swing*)   January 2021 – April 2021
- Spearheaded design and research to streamline healthcare process by implementing "**Online Consultation**" service
- Devised a total of **25** work requests within **4** enterprises and **11** organizations of system
- Incorporated "**Emergency Response**" feature to provide fast help to people in need

COVID-19 Simulator (*JAVA, Power BI, Swing*)   January 2021 – April 2021
- Programmed a simulator to emulate the spread of **SARS-COV** & **SARS-COV-2** virus
- Integrated real life R-Factor & K-Factor and conditions such as, **"Lockdown"**, "**Contact Tracing**", "**Use of Masks**"
- Forecasted growth and extinction of both viruses within **60-70** days based upon enforced conditions

Procurement Management System (*T-SQL, Power BI, SSMS*)   July 2020 – August 2020
- Implemented procurement system to expedite and audit procurement process
- Devised **3** triggers, **5** stored procedures, **4** functions to automate processes
- Created **5 views** for access of information required for business purposes

Leaf Disease Detection using Image Processing and Neural Networks (*Python, Keras, TensorFlow*)   July 2018 – March 2019
- Researched **200+** diseases affecting plants to understand its effects on leaves
- Assembled a dataset of over **60,000** images with **100+** diseases and trained a sequential **CNN** model
- Diagnosed problems faced by **farmers** in India, brainstormed and calculated remedies using **ML** model