Sarthak Pandit

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Skills

- **Programming Languages:** Java, Python, Scala
- **Database:** MSSQL, MySQL, PostgreSQL, MongoDB, Neo4J
- **Cloud Platforms:** Amazon Web Services, Google Cloud Platform, Docker
- **Machine Learning & AI:** Classification/ Regression (Supervised), Clustering algorithms
- **Version Control and Tools:** GitHub, GitLab, JIRA, SVN
- **Tools:** Ms-Office, Postman, Tableau, Qlik
- **Development Approach:** Agile, SDLC, Version Control, Test Driven Development, SOLID, Design Patterns
- **Soft Skills:** Client communication skills(written & oral), Leadership, Decision-making, Problem-solving
- **Natural languages:** English (fluent – written & oral), Hindi, Marathi

Work Experience

Technical Business Analyst
April 2021 – Oct 2021

Soroco (Goldman Sachs), India - *Banking Analytics*

- Understanding business requirements, analysing, and performing data analytical operations and AI models including k-nearest neighbour clustering algorithm, and n-gram analyses.
- Worked extensively on relational databases using PostgreSQL, to perform data remediation and build insightful analytical metrics useful for business.
- Designed, developed and implemented fuzzy-matching algorithm on customer address data which has become a standard for future similar projects.
- Collaborated with engineers to adopt best code practices in data system creation, reporting, data integrity, and validation.
- Customer service lead worked closely with the engagement managers, and product managers intending to create long-term relations.
- **Technology Stack** – Python, PostgreSQL, Qlik, Tableau, JIRA, Ms-Office

Software Developer/ Data Engineer
Oct 2017 – March 2021

EY, India - *Banking Analytics/ FinTech*

- Worked as a middleware and backend JAVA developer to gather and synthesise business requirements for an internal banking audit web application using Spring MVC architecture.
- Assisted in the analysis, design, and development of a roadmap and implementation of new features in legacy audit application with more focus on better user experience and improved robustness and scalability.
- Performed Threshold tuning by ATL/BTL sampling to reduce false positives in alert generation based on disposition analytics. Worked with alert review teams to review alert disposition statistics and tune the TM engines.
- Implemented automated reporting model using Cron job, Batch file commands and tuning T-SQL queries; saving manual effort and error by 90%.
- Implemented custom data architecture and models for the client TM database. Specifically, implemented and automated SCD Type-1, 2 & 3 on customer data.
- Improved code coverage to 75%, measured through SonarQube using Mockito and Junit testing frameworks.
- **Technology Stack** – JAVA, MSSQL, Hive, Hadoop, PySpark, HQL, Scala, Python, GIT, SVN, Ms-Azure, Jenkins

Academic Projects

Fraud Detection on Credit Card Payments

- A comparative machine-learning algorithms-based solution to detect fraudulent credit card payments using supervised learning – classification model.
- The performance on the SMOTE oversampled dataset was compared using Logistic Regression, Random Forest, and Decision Trees.
- The results were evaluated and visualised using Cross-Validation round and Statistical significance test.
- **Technology Stack/ Libraries** – Python, Scikit-learn, Pandas, NumPy

Bed & Breakfast – Serverless Web Application

- Built a serverless web application with service-oriented and multi-cloud architecture services.
- The application used cloud resources from GCP and AWS with the data being stored centrally in DynamoDB.
- Built online support module using chatbot created from Amazon Lex service.
- Integrated the chatbot with the web application to facilitate interactive experience for clients.
- **Technology Stack** – Python, Amazon Lex

PlantOne – Springboot Web Application

- Web application(using spring-boot framework) to create a marketplace for users to sell, exchange and adopt plants/ plantation-related products with cross-browser compatibility.
- Created RESTFUL APIs for JAVA-based middleware framework and created end-to-end application design flow and documented APIs using Swager.
- Improved code coverage to 97% using TDD approach by implementing unit test cases using Junit and Mockito frameworks and performed integration testing using MockMvc and deployed the application using CI/CD pipeline using GitHub.
- **Technology Stack** – JAVA, Vue2, CI/CD, TDD, Springboot, HTML, MSSQL

Cloud9 – IVR

- Created cloud-based IVR application to schedule courier services. With the help of IVR, users can schedule their courier pickup and drop-off, track their courier order and download invoice and use the IVR service in multiple languages including but limited to English & French.
- The application was entirely hosted on cloud platform using AWS cloud services – EC2, Docker, API gateway, Lambda, DynamoDB, S3, Cognito, Code Commit, Code Deploy. All the resources were provisioned using CloudFormation Scripts.
- **Technology Stack** – Python (Django framework), React JS, AWS Cloud Services

Education

- **Dalhousie University** — **Anticipated, May 2023**
  *Master of Applied Computer Science (**Available for co-op/full-time from Jan'23**)*
- **Vellore Institute of Technology** — **Graduated, May 2017**
  Bachelor of Technology, Electronics & Communication and Engineering – CGPA 8.33/10

Achievements & Other Social Work

- **Marketing & Advertising Head** at VOLOC. An e-course structured application that aims at providing online learning to the engineering students through efficient course material.
- **Experienced teacher** at a government school as part of NGO – Gramiksha, that helps under privileged students to attain top notch education.
- Been part of several CSR (Corporate Social Responsibility) activities including plantation drives, teaching students in government schools etc.