Tirth Girish Pipalia

- Software Developer

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SUMMARY

As a self-starter and motivated Software Developer. I intend to narrow my interest and deepen my knowledge in Enterprise Operations. I seek to learn and gain global exposure, knowledge of research methodologies and latest industry development in the field. Incorporate communication skills, analytical problem-solving skills needed to evaluate and manage the critical risk in a fast paced and challenging environment. Passionate to be more accountable, innovative, and collaborative in designing and developing the next generation of technology solutions according to continuous customers requirements.

TECHNICAL PROFICIENCY

Programming: C# | C++ | JAVA | PYTHON | VB.net | SQL | R | Go

Web Frameworks: JavaScript | HTML5 | PHP | CSS | Django | Jinja | Flask

Databases System: Postgres | MySQL | Oracle | SQL Server | MS Access | Aurora

Software Tools: PyCharm | NetBeans | Eclipse | RStudio | Docker | Anaconda Microsoft Visual Studio | Visual Studio Code | MS Excel | MS Word | G Suit | PowerPoint | Git

Visualisation tools: Microsoft Power BI (Business Intelligence) | Tableau | RStudio | Plotly

Operating Systems: Windows | Raspberry Pi | MacOS | Android | Linux | iOS

AWS Skills: Elastic Compute Cloud(EC2) | Simple Storage Service(S3) | Lambda Athena | Elastic Load Balancer (ELB) | Relational Database Service (RDS) | SageMaker | Quick Sight

EDUCATION

Master's in Business Analytics (Higher 2:1 Honours) **2019-2020**

Dublin Business School | Republic of Ireland.

Modules: Data Mining, Computer Science, Design and Analysis of Algorithms, Data Analytics, Machine Learning, ETL Process, Data Visualisation- Tableau, PowerBI, Software Development Lifecycle.

Bachelor's in Business Administration (Computer Applications)(1st Class) **2017-2019**

University of Pune | India.

Modules: Software Engineering, Data Warehouse Management, Data Structures, Software Designing, Object-Oriented programming, Business Mathematics, Computer Engineering, Software Design

SOFTWARE PROJECTS

Bus Transport Management System

- Developed flexible customer-centric software using JavaScript, Java, Applets, PHP & SQL.
- Designed and Developed web-based Graphical User Interface using HTML, JavaScript, AJAX, and CSS
- Implemented JDBC API to establish a successful Type 1 bridge using ODBC driver.
- Agile Development use cases were derived based on 3 modules of system: Admin, User, Transaction
- Published project paper in "International Research Journal of Engineering and Technology" (IRJET)

Django Framework: Tours & Travel Web Application Development

- Developed software solutions using python and jinja which supports MVC architecture in Django.
- Created Django REST API to communicate effectively in a collaborative and complex web application.
- Designing and implementing dynamic web pages from 2 Django models using Postgres, SQLite, Jinja.

- Delivered tested & secure code for Create, Read, Update and Delete(CURD) methods using REST API.

Product Requirements Specification: National Library Management System

- Led team of 3 to improve product quality, System architectures, Testing Reports, Time Management
- Gathered 13 Functional & 7 Non-Functional requirements from Internal and External clients.
- Implemented Agile Framework based on system requirements for Software Development Lifecycle.
- Fulfilling constraints of Risk Registry and GDPR (General Data Protection Regulation) regulations.

R and R Studio: Statistical and Machine Learning Technology Solutions

- Introduced features for the user to perform descriptive and predictive data driven analysis.
- Deployed descriptive analytics techniques like Mean, Standard Deviation, Structure, and Dimension.
- Generated easy to consume charts and metrics based on 4 probability models: Discrete/Continuous, Binomial, Poisson, Geometric and statistics from data by writing high quality and secure R code.
- Applied Machine Learning Regression algorithms on the enterprise data to generate corresponding plots and charts of the target variable and independent variable.
- Quantified the result by translating complex technical problems into easy to digest insights.

RESEARCH

Assimilation of Machine Learning and Cloud Computing for Supply Chain Industry.

- Integrating 5 cloud technologies of Amazon Web Services: EC2, S3, SageMaker, IAM, and CloudWatch.
- Data Research using the Extract, Transform, Load (ETL) process, python packages: pandas, Numpy.
- Implemented CRISP-DM methodology with 6 stages and Machine Learning Lifecycle with 8 Stages.
- Developed 5 Classification and 5 Regression Models to comparatively analyse upon 8 metrics.
- Based on Data Engineering and Machine Learning lifecycle process best model was achieved, LightGBM hyper tuned in 5.4 seconds with an accuracy of 84%.
- LASSO algorithm generating an RMSE value of 0.115 and MAE value of 0.0833.

CERTIFICATION

Amazon Web Services: AWS Cloud Practitioner
Udemy: 1) Machine Learning Innovation using Python and R code 2) Deep Learning
Udemy: Git and GitHub for Continuous Integration
Pymetrics Test Result 3 unique traits: Decision Making, Dedicated Learner, Committed performer