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Amruta Shah

DATA SCIENTIST/ ANALYSIST AND SR. PROJECT & SALES ENGINEER WITH 9.7 YEARS OF EXPERIANCE

SUMMURY

- Deep proficiency in Python,pyspark and SQL programming, enhanced by my extensive knowledge of Cloudera Hadoop.
- Solid understanding of machine learning algorithms and techniques, including supervised and unsupervised learning, regression, classification, and clustering. Familiarity with popular ML frameworks and libraries such as scikit-learn, TensorFlow, and Keras.
- Proficient in collecting, cleaning, and analyzing large datasets to extract valuable insights and drive data-driven decision-making. Skilled in utilizing statistical methods and tools for data exploration and visualization by using Pandas, pyspark and NumPy.
- Strong grasp of data visualization and reporting, honed through practical experience with Tableau and matplotlib.
- Proficient in numerous IDEs, including Anaconda, Jupyter Notebook & GoogleColab, I also have experience with web scraping using Python tools like Selenium and Beautiful Soup.
- Experiance in financial services, helthcare and other domain as well.
- My familiarity extends to AWS cloud,Databricks platform,CI-CD tools. and big data technologies, Flask, Hadoop, Hive, Spark, Kafka, Scala, HBase, and Sqoop, with comfort working with both SQL and NoSQL database systems.

KEY SKILLS

Programming: Python,, pyspark, MySQL.
Machine Learning:Implemented ML algorithms(Decision Trees, Random Forests, Linear Regression, Logistic Regression,SVM, Ensemble, Bagging, and Boosting techniques)
Deep Learning: CNN, RNN, LSTM (TensorFlow, Keras, neural networks)
NLP (Natural Language Processing), Text Mining, Sentiment Analysis,Text Classification.
Database: MySQL, SQL, NoSQL
Data Analysis: Statistics, Pandas, scikit-learn, SciPy, Seaborn.
Data Visualization: Tableau, Matplotlib

PROFESSIONAL EXPERIENCE

Data Scientist   May '22
Flip Robo Technology | Banglore
Role & Responsibility: -

- Understand **analytics & modeling** needs and build validated data pipelines to extract data, build new predictive features to build 100% ML models.
- **Extracted** usable data by performing web scraping using Selenium and Beautiful Soup from valuable data sources.
- **Researched** and implemented data pre-processing techniques for both structured and unstructured big data, resulting in a 95% improvement in data quality in pyspark & python.
- Ensured 100% data integrity by **cleansing and validatin**g big data sets for analysis using pyspark or python. Analyzed large volumes of information, identifying patterns and delivering solutions.
- Engineered exploratory data analysis (**EDA)** to extract insights and develop effective solutions, resulting in a 90% improvement in decision-making accuracy.
- **Developed** and implement 80% feature engineering **strategies to extract** meaningful features from raw data and optimize model performance..
- Implemented ,constructed and optimized **predictive models** using various ML algorithms achieving a 90% prediction accuracy.
- construct and maintain scalable data processing systems to support **data science** workflows.
- Presented and documented results in clear reports, providing stakeholders with a 100% understanding of key insights.
- Revamped **data visualization techniques**, effectively communicating key metrics and insights to stakeholders and resulting in a 95% improvement in data comprehension.

Data Analysist & ML Engineer Apprenticeship   Dec '20 - May '22
Data Trained Collabrated with IBM | Banglore
Role & Responsibility: -

- Assist in collecting, cleaning, and organizing **large dataset**s from various sources using pyspark and python.
- Employed **statistical tech. & powerful visualization** tools to conduct data analysis, identifying patterns, trends, and insights.
- Developed and **implemented machine learning models** for predictive analytics and decision-making.
- Work with structured & unstructured data to extract relevant features and **perform 70% data transformation**s using pyspark, MySQL and python.
- **Collaborated** with cross-functional teams to understand business requirements and develop data-driven solutions.
- Participated in the **design, development**, and deployment of machine learning systems.
- Stayed at the forefront of the **latest trends and advancement**s in data analysis and machine learning.

Service sales Engineer   Nov '15 - Oct '18
Valmet Atumation Pvt. Ltd | New Mumbai
Role & Responsibility: -

- Led 90% of sales and pre-sales activities for DCS projects, spares, upgrades, and services in the Power and Paper sectors.
- Planned and allocated **project activities** to team members, ensuring smooth execution and timely completion.
- Deployed lean management software for 100% project management and financial tracking

Sr. Project & Sales Engineer   Feb '14 - Nov '15
IB Atumation Pvt. Ltd | Pune
Role & Responsibility: -

Web Scraping: Selenium, Beautiful Soup
Big Data: Hadoop, Hive, Sqoop, Spark (Pyspark), Kafka, Scala, HBase
IDEs: Anaconda, Jupyter Notebook, Google Colab, pycharm.
My familiarity extends to AWS cloud, Databricks platform,CI-CD tool, Data Structures, Data Modeling ,DBMS tools.
AutoCAD, Lean Software, Computer Knowledge, MS word, MS Excel, MS power Point, MS outlook express etc.
Communication and Collaboration:
Excellent verbal and written communication skills, with the ability to convey technical concepts to both technical and non-technical audiences.
Strong teamwork and collaboration skills, demonstrated through successful participation in group projects.

CERTIFICATION:

Business Analytics with Tableau Certification from Data Trained Education, Bangalore.
NLP with Machine Learning course Certification from Data Trained Education, Bangalore.
Applied Machine Learning with Python Certificate from **IBM.**
Project Completion Certificate from Data Trained Education for Data Science & Machine Learning Projects.
Post Graduation Completion in Data Scince, Machine Learning & Nural Network.
Full Stack Big Data course Certification from Data Trained Education, Bangalore.

- **Collaborated** with customers to fulfill 100% of their requirements and preferences.
- Created 100% **comprehensive techno-commercial proposals** for PLC, SCADA, HMI, and Electrical projects.
- Designed Control System Hardware/Software in detail, ensuring 100% functionality.
- Conceived and adhered to 100% project budget constraints, meeting design targets within cost standards.
- **Supervised** installation, testing, and pre-commissioning activities of PLC, SCADA, HMI, and control panels with a 100% success rate.

Project Engineer   Nov '11 - Jan '14
Control Tech │ Pune
Role & Responsibility: -
- **Prioritized** all engineering work to ensure timely completion of projects.
- Successfully completed all projects **independently**, with a 100% on-time delivery record.
- Implemented **cost-reducing strategies** and improved efficiency of engineering team

PROJECTS

1) Employee Performance for HR Analytics Using Python and MySQL
- Conducted comprehensive analysis of employee performance data using Python and MySQL.
- Developed data models and schemas in MySQL to organize and store employee performance data efficiently.
- Utilized Python programming and data analysis libraries (e.g., Pandas, Matplotlib) to extract insights and identify patterns, supporting data-driven decision-making.

2) Predictive Modeling for Microcredit Loan Defaulters(Indonesian Rupee)
- Developed a predictive model on AWS cloud using machine learning techniques to identify potential microcredit loan defaulters.
- Experienced in all aspects of data handling, including mining, cleaning, and manipulation, using renowned tools such as Pandas and NumPy.
- Conducted data preprocessing, feature engineering, and exploratory data analysis to gain insights into the loan dataset.
- Utilized logistic regression, random forest, and gradient boosting algorithms to build the predictive model. **AND MANY MORE PROJECTS**

EDUCATION

Post Graduation in Data Science, Machine Learning & Neural Networks   Dec '20 - Jan '22
Data Trained Education │ Banglore
Got 80%

Bachelor of Engineering-Instrumentation & control   Aug '07 - Jul '11
P.Dr.Vithalrao Vikhe Patil │ Ahemednagar
Distinction with 67%