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Objective

To pursue a challenging career in Data Engineering and Machine Learning Science and contribute to the success and growth of the organization by hard work, innovation and sincerity.

Experience Summary

Expedia – From May-2018 to Till Date.
EXL Service – From Nov-2016 to May-2018.
IBM – From March-2014 to Nov-2016.
Infosys – From Dec-2008 to March-2014

Talks

- "Optimization in Apache Spark" workshop in EGIC (Expedia Group Intelligence Conference) 2022.
- "Data Science: Beyond the hype" workshop on "Women of Silicon Roundabout" at Excel London.
- Workshop on "Getting Started with Apache Spark" at Trivago Annual conference Dusseldorf, Germany.
- "Data Analysis and Machine Learning with Apache Spark" workshop at "TechKnowDay" on Women's Day in London.
- Multiple Trainings and workshop on "Apache Spark" internally at Expedia Group.

Experience

Expedia Group (Apr-2020 to Present)

Senior Machine Learning Scientist:
- Built a complex ETL pipeline for personalized property recommendation project, where in we have captured the entire journey of the user from impression, click, interaction to booking using various data sources.
- Performance tuning of the large ETL pipeline build using Apache Spark and DataBricks.
- Built the pre-processing pipeline for the Machine Learning Models.
- Contributed to build, train, evaluate and fine-tune the Machine Learning Model using TensorFlow, MLflow and Hyperopt.
- Lead the Recommendations team in building the recommendation system for properties and destinations.
- In property domain, worked on projects like Alternative property, Similar Property and Contextualized property recommendations.
- In destination domain, worked on projects like Alternative destinations and Theme based destination recommendations.
- Worked closely with Clients, product managers, Machine Learning Engineers, and Machine Learning Scientists to define requirements and successfully launch new recommendation features.
- Spearhead the end-to-end recommendation system development process, including requirement gathering, data engineering, modeling, evaluation, and coordinating the deployment with machine learning engineers with team spread across the globe.
- Set and established best practices for the team to follow in the machine learning space, ensuring high-quality and efficient development processes.

- Lead the development of a common ETL pipeline, widely adopted by the entire team, significantly improving productivity and data processing efficiency.
- Optimized ETL pipelines for team members, leading to a reduction in data processing time and resource utilization.
- Presented a session on optimizing jobs in Apache Spark at the EGIC (Expedia Group Intelligence Conference), sharing insights with peers across the organization.
- Act as a mentor in the Expedia Group's mentorship program, guiding and supporting team members in their professional growth and development.
- Shared the different strategies of cost optimization in Data Bricks with the team.
- Also, worked on processing the real time data using Spark Streaming and Kafka for recommending the Intent of traveler.

Expedia Group (May-2018 to Mar-2020)

BIG Data Engineer:

- Managed and Lead BIG Data Infrastructure for Hotels.com (a brand of Expedia Group) which has more than 1000+ users.
- Administering the Qubole (Cloud Native Data Platform) including Set-up, Migration, Governance, Cost Optimization etc.
- Working very closely with Business Analysts and Data Engineers to help on Qubole Platform which includes the Engines like HIVE, Presto and Spark.
- Working on Performance tuning for various workloads in HIVE, Presto and Spark.
- Responsible for interacting with various stake-holders like Business Analyst, Third Party vendors, senior management etc.
- Delivered various training sessions and workshops on Apache Spark and Data Science across Expedia Group and trained 300+ professionals.
- Published various blogs on Medium which can be found here.
- Helped Expedia to find the right talent in BIG Data space.
- Contributed to various CSR activities with Expedia Group.

EXL Services (Nov-2016 to May-2018)

Spark Developer:

- Worked on a project where we are automating the analytical Life cycle of Data.
- Worked on the comparison of large homogeneous and heterogeneous data sets using pySpark. Also converting SAS code to pySpark.
- Comparing both data datasets based on continuous and categorical variables.
- Calculating various statistics like gini coefficient, KL-divergence, ks-test, CramersV, mean, standard deviation, variance, min, max etc for comparison.
- Store the Calculated statistics into Oracle DB for further Analysis.
- Responsible for various deliverables like Requirement Specification Document, Deign Document, Implementation Code, Test Cases and User Guide.

IBM (Apr-2014 to Nov-2016)

Technical Sales Specialist:

- Interacting with customers directly to understand their requirements.
- Sizing and Solutioning.
- Building Multi Node clusters
- Worked on Integrating the IBM's BIG SQL with Apache Spark to improve the security in Spark

- Delivering Technical Enablement sessions to Clients and partners in BIG Data Technologies.
- POCs on various BIG Data tools including open-source and proprietary.

Infosys (Dec-2008 to Mar-2014)

SAP Business Object Admin:

- Administration of SAB Business Objects environment.
- Migration of Reports, Folders and Universes from one repository to other repository
- Automated Production environment's SAP BO service starting/stopping and server restarts, setting up new application security, WINDOWS AD Update, Monitoring of SAP BO services etc. to improve the efficiency of the SAP BO environment.
- Capacity Management by capturing the Disk space on all servers and analyzing them to do proper capacity planning.
- Performance Tuning the SAP BO environments to improve efficiency.

Achievements

- Published more than 10 blogs on Apache Spark on Medium and 3 blogs are in overall top 10 blogs of Expedia Group.
- Received "**Cheers Award**" in recognition of contribution "above and beyond" whilst embodying Expedia Group principles.
- Received "**Early Impact**" award in EXL service from client.
- Received the "**Deep skill Award**" in IBM for 4 quarters.
- Received an Award of "**Put the Client first**" in IBM on 2 occasion.
- Received an Award of "**Most Valuable Player"** in Infosys Technologies Ltd.
- Received Client appreciations for my special contribution in sorting out various server configuration issues and stabilizing the SAP BO environments, by automating various processes.
- Received **Gold Medal** for securing first rank during my Bachelor of Engineering (Hons.).
- Attended Training of **IBM-DB2v9** held in SVITS, Indore.

Trainings and Certifications

- Data Engineering, Big Data, and Machine Learning on GCP specialization by Google Cloud on Coursera
- From Data to Insights with Google Cloud Platform specialization by Google Cloud on Coursera
- Achieving Advanced Insights with BigQuery certificate by Google Cloud on Coursera
- Exploring and Preparing your Data with BigQuery certificate by Google Cloud on Coursera
- Data Science and Machine Learning certificate by Databricks
- Extract, Transformation and Load (ETL) certificate by Databricks
- Training on IBMs Dataworks and Data Science Experience in BANGKOK
- Training on IBMs BIG Insight and Spark in IBM SINGAPORE
- BIG DataX certification from Databricks and UC Berkeley on edX
- Machine Learning certification from Databricks and UC Berkeley on edX
- Apache Spark certification from Databricks and UC Berkeley on edX
- Various certification from IBM's BIG Data University on Spark, Hadoop, HIVE and PIG.
- IBM Certified Database Associate - DB2 Universal Database V8.1 Family.

Education

- 2004-2008: B.E. from Shri Vaishnav Institute of Technology and Science, Indore (M.P.) with an aggregate of 78.8%.