Varun Bhaskara

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EDUCATION

Master of Science, Computer Science   **May 2024 (Expected)**
University of Colorado Boulder   Boulder, CO
Bachelor of Engineering, Information Science and Engineering   **May 2019**
Dayananda Sagar College Of Engineering, Viswesvaraya Technological University (CGPA: 9.1/10)   Bangalore, India

SKILLS

- **Programming Languages:** Python, Scala, SQL, JavaScript, Shell scripting
- **Big data Technologies:** Apache Spark, Hadoop, Hive, Oozie, Sqoop
- **Cloud Technologies:** Azure Databricks, Azure Datafactory, Azure Event Hub, AWS RedShift, AWS EMR
- **Databases:** Postgres, Vertica, SQL Server, MongoDb, Hbase
- **Other Technologies:** MS Excel, Kafka, ReactJs, NodeJs, Redux, Express, Docker

EXPERIENCE

University of Colorado Boulder   Boulder, CO, USA
Grader for CSCI 3155 (Principles of Programming Languages)   Aug '22 - Dec '22

- Responsible for reviewing and grading student assignments and exams, providing feedback and guidance to help students improve their skills and understanding of course material.
- Collaborated with instructor and other graders to develop and update assessment criteria and evaluation rubric, ensuring fair and consistent grading process.

Hewlett Packard Enterprise   Bangalore, India
Data engineer   Jul '19 - Jul '22

- Developed a customizable standard data ingestion framework using Python that runs on and utilizes Kubernetes APIs for job execution.
- Added data quality checks, audit log capture, and job failure alerts using Scala to data pipelines that reduced bugs in production pipelines by up to 60%.
- Led a team of 5 in migrating over 50TB of data from the enterprise data warehouse into the data lake as delta tables leveraging PySpark.
- Improved performance of existing Spark data pipelines by leveraging concepts like column pruning and pre-partitioning and RDD transformations and cut down infrastructure costs by 30%.
- Fine tuned several API and database performance issues by analyzing database indices and refactored SQL joins and enhanced performance by up to 40%.
- Collaborated with the Order management team to design custom Hive UDFs that provided end-to-end insights of order lifecycle to stakeholders.
- Mentored and on boarded interns and new junior developers, gave sessions about technologies like Spark, Scala, and SQL, and performed code reviews.

Hewlett Packard Enterprise   Bangalore, India
Business Intelligence developer intern   Jan '19 - Jul '19

- Developed optimized stored procedures to aggregate fact tables for Configure, Price, Quote team at various intervals, resulting in a three-fold decrease in query times.
- Designed a POC dashboard in QlikSense, to visualize key performance indicator metrics from HPE's Next Generation Quoting tool.

MAJOR PROJECTS

Text recognition in images using Machine Learning   Jan '19 - May '19

- Built a ML model consisting of a series of CNN, RNN, and connectionist temporal classification(CTC) layers to recognize handwritten text in images and achieved an accuracy of 87 percent and presented the paper at IEEE sponsored Ninth International Conference on 'Recent Engineering and Technology' held in Bangalore.

E-Commerce application to sell old text-books   Aug '18 - Dec '18

- Created a full-stack e-commerce website to sell old text-books online using MongoDB, Express, React and NodeJS and scaled it to receive over 100 orders.

LEADERSHIP AND HONORS

- Spotlight award for seamless delivery and going above and beyond in July 2021 at HPE for work done in migrating enterprise data warehouse data into the data lake.
- Performance excellence award in April 2020 at HPE for setting up data pipelines to create data models for shipment and logistics domains.