Vaishnavi Srinivasan

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EDUCATION

Master of Science in Data Science GPA: 3.67

Indiana University, Bloomington, Indiana   Dec 2018

Bachelor of Technology in Information Technology GPA: 8.6

Anna University, Chennai, India   Apr 2010

SKILLS

Language	Python, R, Java, Scala, SQL, PL/SQL, C++, Shell scripting
Databases	Hive, Oracle 11g, Sybase 15, DB2, Netezza, Teradata
Technologies	Spark, MapReduce, Sqoop, Oozie, IBM Infosphere Datastage v 11.3 Server & Parallel
Operating Systems	Windows, RedHat Linux, Unix
Courses	Introduction to Statistics, Elements of Artificial Intelligence, Semantics & Discourse, Machine Learning, Exploratory Data Analysis, Social Media Mining
Certifications	Scrum Alliance certified Scrum Master, IBM Certified Solution Developer InfoSphere - DataStage, Oracle Certified Associate & IBM Certified Database Associate DB2 9 Fundamentals

PROJECTS

Parts of Speech Tagging
- Designed and implemented Bayesian Networks (Naive Bayes, Viterbi and Variable elimination algorithm) to classify parts of speech in sentences.
- Used forward and backward algorithm implementation to achieve an accuracy of 94%.

Image Classifier
- Created a classifier to predict the correct orientation of a given image
- Implemented K-Nearest Neighbors and boosting - Adaboost algorithm for prediction from the training dataset.

Semantic Natural Language Processing, NOAI, And Big Knowledge
- Worked on building a knowledge representation for the AI: the system processes natural language text and extracts semantic relations from unstructured text.
- Implemented knowledge representation in Graph DBs - Neo4J and Stardog and an OWL with a reasoner.
- Input text and questions are translated to Cypher and SPARQL queries, with input text stored in the database and answers returned are translated natural language text from the knowledge graph.

EXPERIENCE

Assistant Instructor   Aug 2017 – Dec 2017
Indiana University   Bloomington, Indiana
- Collaborated with graduate students for building a project from scratch using Agile methodology. [Course Link]
- Held labs for undergrad students, assisted them with developing code using python.

Data Warehousing Consultant   Nov 2010 – Jul 2017
With Cognizant Technology Solutions, Perficient Inc and TATA Consultancy Services   Chennai, India
- Improved the performance by 45% using server-side load balancer to reduce overload.
- Designed reusable data archival component reducing development effort by 50%.
- Prepared SQL scripts per subject area for test execution cycles that reduced the effort by 40%.
- Migrated 2GB of financial data to Hadoop data lake from TeraData/SAP pipeline.
- Developed Hive queries, Sqoop scripts to load data warehouse.
- Implemented file processor, wrapper scripts in UNIX and Python.
- Collaborated closely with the Power BI team for financial, customer services and product eligibility.
- Improved data quality by cleansing insurance data at source, using ETL jobs
- Setup traceability matrix to ensure compliance to requirements.
- Improved code reusability by developing parallel routines, using C++.