

EDUCATION

Northeastern University , Boston, MA	Jan 16 - Present
Master of Science in Computer Science	GPA:3.89 Expected graduation: Dec. 17
Related Courses: Parallel Data Processing, Machine Learning, Data Mining, Information Retrieval, Algorithms, Web Dev	
Amity University , India	Aug 08 -May 12
Bachelor's Degree in Computer Science & Technology	GPA:3.7

TECHNICAL KNOWLEDGE

Languages	: C#, Java, SQL, PL/SQL, Racket, Python, Scala, R
ETL/Analytics Tools	: Informatica Power Center, QlikView, Hive, MongoDB, Oracle, DynamoDB, SQL Server, EMR, BigQuery
Frameworks & Tools	: Spring Boot, Angular4, Spark, Hadoop, Lucene, Pandas, Numpy, Scikit-learn, AWS, GCP
Certification	: AWS Certified Developer – Associate Level

WORK EXPERIENCE

Philips Healthcare , Boston, MA	
Software Engineer Co-op	Jan 17 – Aug 17
<ul style="list-style-type: none">Designed cloud-based framework that enables predictive analytics for inter connected healthcare applications.Implemented an IoT system which maintains Philips Inventory data and regular statistics from the devices on AWS.Assisted in implementing a complex Hadoop ecosystem architecture aiming to process 1TB/day patient critical data.Analyzed inventory data, by developing a web suite that enabled effective data visualizations and pattern recognition.Developed a query processing application using Spark to economically and effectively query DynamoDB tables.	

Northeastern University , Boston, MA	
Graduate Teaching Assistant (Programming Design Paradigms)	Sep 16 – Dec 16
<ul style="list-style-type: none">Conducting weekly code review sessions for a class of 190 students and grade their submissions.	

WIPRO Ltd. , Bengaluru, India	
Senior Software Engineer (ETL solution developer for ABInBev)	Jun 12 – Dec 15
<ul style="list-style-type: none">Maintained and enhanced the data warehouse solution built using Informatica, PL/SQL and Kalido DIW.Created analytic dashboards for Carbon Emission Logistics using QlikView to efficiently monitor carbon footprint.Implemented a specialized ETL solution enabling effective evaluation of growth of critical company employees.Optimized over 5 PL/SQL procedures and 8 Informatica mappings to reduce monthly data load time by 200%.Delivered over 12 Change Requests independently by handling all phases of SDLC.	

PROJECTS (<https://github.com/AbhayKasturia>)

<ul style="list-style-type: none">Airbnb Smart Price Prediction (R)	Sep 17 – Dec 17
Building a prediction model on Airbnb listings data by analyzing algorithms like Linear Regression, Generalized Additive Modelling and Regression Trees. The model helps in evaluating an appropriate expected cost of a new listing.	
<ul style="list-style-type: none">Yelp Recommendation System (Python)	Sep 17 – Dec 17
Building a recommendation system on Yelp public dataset by analyzing algorithms like Clustering and Collaborative Filtering. The model utilizes user's activity data on Yelp to recommend similar services.	
<ul style="list-style-type: none">Bird Sighting Prediction (MapReduce)	Nov 16 – Dec 16
Built a prediction model on eBird Dataset to predict the presence of the Red-Winged blackbird in each birding session with an accuracy of 83%. The model uses Random forests and novel MR algorithms, making it extremely scalable and efficient.	
<ul style="list-style-type: none">Find Answers (MEAN)	May 16 – Jun 16
Developed a mobile web application based on MVC architecture using Stack Overflow API, MEAN stack and third-party authentication using PassportJS. It is an interactive question and answer website with additional social networking elements.	
<ul style="list-style-type: none">Retrieval Engine with Query Expansion Techniques (Java)	Jan 16 – Apr 16
Implemented and evaluated a Retrieval Model which parses AP89 dataset, indexes the output and ranks document using BM25. The results were enhanced using word association, pseudo relevance feedback and stem classes.	

PERSONAL INTERESTS

A travelling enthusiast with a passion for photography.