

Vaishakh Deepak Ghati

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Education

University of Texas at Arlington

Arlington, TX

Master of Computer Science

May 2021

Coursework: Machine Learning | Artificial Intelligence | Advanced Data Base Systems | Data Mining | Distributed Systems

PES Institute of Technology

Bangalore, India

Bachelor of Engineering, Computer Science and Engineering /

Sep 2018

Coursework: Advanced Algorithms | Data Analytics | Advanced Web Technologies | Operating Systems | Compiler Design

Skills

Programming Languages: Python, Java, R, Scala, SQL

Databases : MongoDB, MySQL

Web: HTML, CSS, JavaScript, PHP, Bootstrap, Laravel, REST API, Postman, AWS(S3, EC2, EMR, DynamoDB, Lambda)

Frameworks and Tools: Git, JIRA, JUnit, Docker, Hadoop, Map-Reduce, Spark, Hive, HBase, AKKA, Parquet,

PowerMockito, Pandas, Numpy, Scikit-learn

Mobile Development : Android Studio, Swift Xcode

Experience

PAYCOM – Virtual Summer Engagement Program Intern

Oklahoma City, OK

June 2020 – July 2020

- Developed an Android Application for the utility of Event Management .
- Features included User-to-User Chat Integration, Backup of User Data, Real-time Google Maps, Data Sync to provide display location of attendees, Search through events, Sign in authentication, modify events and save them to the calendar.

SIGMOID - Software Development Engineer

Bangalore, India

Oct 2018 - May 2019

- Built ETL pipelines in Scala for websites that generates views, impressions and graphs for clients.
- Created a microservice with API gateway to maintain consistent ratio between number of files & size of files for ETL pipeline.
- Involved in DevOps Deployment, fixing Scalability & AWS SDK issues & Migrated the code base from Spark 1.6 to Spark 2.3

MiQ Digital India Pvt. Ltd - Software Developer Intern

Bangalore, India

Jan 2018 - May 2018

- Developed a product called **Query Service** in Java on Spring Boot, Vert.x, designed to run large queries on a Zeppelin Notebook.
- Created and executed unit test cases, fixed bugs related to deployment and failures in UI.
- Built API end points to be consumed by other services.

NASDAQ - Software Engineering Intern

Bangalore, India

May 2017 - Jul 2017

- Developed an iOS application for Nasdaq employees that queries Gmail E-mails, parses the contents and displays the e-mail contents according to a specified format with supporting User Interface along with notifications Alerts .

Projects

MVC Based Web Application

UT Arlington, Spring 2020

- Developed a website for an university using **HTML5, CSS, Bootstrap, JavaScript, PHP** and deployed it on UTA cloud.
- The website had user interface for both admin and users. The website was implemented in MVC pattern using **Laravel**.

Advanced Databases Course Project

UT Arlington, Spring 2020

- Developed and implemented graph processing and matrix multiplication algorithms on **Hadoop Map-Reduce, Spark, Pig and Hive**. SDSC Comet was used as the computing platform.

Analysis of Texas Weather and IMDB using R

UT Arlington, Fall 2019

- Analysed weather change in Texas over 5 years based on factors like Temperature, DewPoint etc using **k-means clustering**.
- Performed **Association Rule Mining** on IMDB dataset to indicate artists who have worked together over the years and popular genres during the year 1990-2018. Different graphs plots were plotted to analyse the rules over iterations.

Tic-Tac-Toe game using Reinforcement Learning & Genetic Algorithm

PESIT, Spring 2018

- Implemented classic Tic-Tac-Toe using Reinforcement learning & Genetic algorithm. **MiniMax algorithm** and **Recursive Backtracking Technique** was used to make the next best moves.
- Achieved an accuracy of 90% and 92% on 4X4 and 3x3 board games respectively.

Android Development Projects

- Developed Android applications such as Proof of Concept(POC) on Google's Push Notification Service, POC on image zoom clarity assurance and POC on reading device data in background and pushing it to the cloud.