

SUHAS BHARADWAJ K

Employee ID: 1778396

Mail ID: ksuhas.bharadwaj@tcs.com

Current Role:

Axiom Developer at Financing and Accounting Scrum Team at ABN AMRO Bank

Key Skills

- PyTorch to build Convolutional Neural Network (CNN) models
- PySpark with Azure Databricks
- Axiom SL Controller View reporting tool
- Core Java
- SQL
- Basics of Azure Cloud
- Basic Unix Commands

Responsibilities in currently working project

- Building OS Command modules in Axiom software to implement a pipeline for loading and processing of input data from different reporting agents.
- Building CI of CICD pipeline specific to Axiom Software.
- Implementing business rules to generate end reports.
- Optimizing the run time of FreeForm reports.
- Migrating the Axiom objects from Version 9 to Version 10.

Personal Projects

- [Acromegaly Detection](#)

Acromegaly is a disease whose primary symptom is light swelling of palms. A CNN model was built using **ResNet-34** architecture to automatically detect if the given hand image is an acromegalic hand or a normal hand.

Stochastic Gradient Descent was used to train the model.

- [Deep Steganography](#)

Steganography is a method of embedding secret data inside a cover data.

Given a secret image and a cover image, a model was trained to hide secret image inside a cover image using CNN.

Adam's optimizer was used to train the model.

- [Sudoku Solver using AI Search Algorithms](#)

Sudoku puzzles are generally solved in exponential time complexity by deterministic backtracking algorithms.

But the non-deterministic AI search algorithms such as **Simulated Annealing** and **Genetic Algorithms** can solve the sudoku puzzle in polynomial time.

These algorithms have been implemented in Java to solve the Sudoku Puzzle.

Internship Learning Project

- [New York City Taxi Dataset Analysis in PySpark](#)

By analyzing the New York City Taxi Dataset that was released by Google on public platform, answers to the following questions were drawn using the PySpark data structures such as **RDD** and **DataFrames**.

- a. How has the number of trips changed over time?
- b. How does taxi usage differ by day and by time of the day?
- c. What are the top trip destinations and where are those trips coming from?

A model was trained to **predict the fare of a given trip** using **Spark Mllib**.

Worked out IEEE Research Papers

- [Application of Bloom Filters in the field of Big Data](#)
- [Pipelined van Emde Boas Tree: Algorithms, Analysis and Applications](#)

Educational Qualification

Qualification	Subject	CGPA	College	Period
Bachelor of Engineering	Computer Science and Engineering	8.5/10	Jawaharlal Nehru National College of Engineering	2016-2020

Achievements

- Champion in paper presentation competition for presenting a technical paper on "Application of Bloom Filters in the field of Big Data".
- TCS CodeVita Qualifier.

Certifications

- [AZ-900: Microsoft Azure Fundamentals](#)
- [Artificial Intelligence Search Techniques by IIT Madras](#)
- [Data Structures and Algorithms by IIT Kharagpur](#)

Hobbies

- Playing Cricket and Badminton
- Cycling
- Practicing spiritual texts