

Atul Manjunath Bharadwaj

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EDUCATION

NEW YORK UNIVERSITY

M.S. in Computer Science
May 2023 | Brooklyn, NY
Tandon School of Engineering
Cum. GPA: 3.7 / 4.0

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

B.E. in Computer Science and Engineering
July 2021 | Bengaluru, IN
S J B Institute of Technology
Cum. GPA: 8.8 / 10.0

LINKS

Github:// [AB047](#)
LinkedIn:// [atulmbharadwaj](#)

COURSEWORK

GRADUATE

- Design and Analysis of Algorithms
- Operating Systems
- Artificial Intelligence Cloud Computing
- Big Data
- Software Engineering
- Functional Programming Languages
- Information Visualization
- Developments in HCI

SKILLS

PROGRAMMING

Over 5000 lines:

Python • C++ • C

Over 1000 lines:

Java • Javascript • CSS • PHP •

Embedded C • HTML • Shell • \LaTeX

FAMILIAR

- MySQL • REST APIs • AWS • Azure • OpenCV • NumPy • Scikit-learn • Pandas • Matplotlib • Tensorflow • Git • MongoDB • React.js • Node.js • Tableau

EXPERIENCE

ARTHMETIS LLC | Data Science Summer Associate

May 2022 - July 2022 | Charlotte, NC
[Python, Azure, AWS, pandas]

- Hosted end points using REST API for a linear regressor on AWS, GCP and Azure. Developed an AWS Sagemaker pipeline for developing and evaluating customer churn data.
- Performed customer segmentation and market basket analysis on a transactions dataset with customer classification score of 75 % on Azure ML Pipelines.
- Created Dashboard for customer segments for comparing use of ThoughtSpot, Tableau and PowerBI for the business.

QUALITAS TECHNOLOGIES | ML Intern

April 2021 - June 2021 | Bengaluru, India
[Tensorflow, C++. QTCreator, OpenCV]

- Automated dominant color detection and filtering for an automobile assembly line that reduced the color and contrast sensor cost and usage by ~ 50 %.
- Automated capturing of images from high-speed video feed for quality assessment in dough assembly lines which reduced total sensor cost and usage by ~ 15% and eliminated use of position sensors.

E-YANTRA LABS, IIT-BOMBAY | ML Research Intern

May 2020 - June 2020 | Mumbai, India
[Tensorflow, Python, Pandas, Numpy, Librosa, MDBook]

- Generated web-pages from videos with 'Click Transcript to Jump to Timestamp' feature for use in MOOC platform.
- Detected timestamps of intro audio from a series of videos having the same intros for a MOOC platform in Python using audio fingerprinting.

PROJECTS

SOKOBAN LEVELS SOLVER

December 2021

- Implemented MCTS, Genetic, Hill climber and A* algorithms to solve randomly generated levels for the sokoban game with accuracies of 67%, 90%, 75% and 99%.

ASSISTIVE CHATBOT FOR VISUALLY IMPAIRED

January 2021 - July 2021

[Python, AWS, Tensorflow, Web sockets, RASA, Node.js]

- Built a Rasa chatbot using a YoloV4-tiny network trained on a custom dataset with an MAP of ~ 50% hosted on an AWS that can direct a blind person on roads with an average latency of under 1.5s.

AWARDS

1ST/1050 e-Yantra Robotics Competition, IIT-Bombay, 2020

- The palm sized four wheeler was capable of wireless serial communication that could path plan a complex maze and self drive using onboard ToF sensors, identify numbers using OCR and line follow.