

Deepak Ahire

<https://adeepak7.github.io> | ahiredeepak20@gmail.com | +91 9757185363

EDUCATION

SHIVAJI UNIVERSITY

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

Aug 2014 - May 2018 | Sangli, India

Major GPA: 9.69 / 10.0

LINKS

LinkedIn:// [Deepak Ahire](#)
 Portfolio:// [adeepak7.github.io](#)
 Stack Overflow:// [Deepak Ahire](#)
 Github:// [@adeepak7](#)
 ACM ICPC:// [ACM ICPC ID](#)
 Hackerrank:// [@ADeepak](#)
 ORCID:// [0000-0002-9174-0797](#)
 Analytics India Magazine:// [Deepak Ahire](#)

CERTIFICATIONS

- [1] Essential Mathematics for Machine Learning, IIT Roorkee (Verify)
- [2] CodeChef Certified Data Structure & Algorithms Programme (CCDSAP) - Advanced Level. (Verify)
- [3] CodeChef Certified Data Structure & Algorithms Programme (CCDSAP) - Foundation Level. (Verify)
- [4] ACM International Collegiate Programming Contest ID. (Verify)
- [5] Hackerrank Skills Certification - REST API - Intermediate Level. (Verify)
- [6] Hackerrank Skills Certification - Problem Solving - Intermediate Level. (Verify)
- [7] Hackerrank Skills Certification - Java - Intermediate Level. (Verify)
- [8] Hackerrank Skills Certification - Node.js - Intermediate Level. (Verify)
- [9] PCEP Certified Entry-Level Python Programmer. (Verify)
- [10] Introduction to Statistics (ST0050). (Verify)
- [11] LaTeX for Students, Engineers, and Scientists. (Verify)
- [12] Hackerrank Skills Certification - Javascript - Basic Level. (Verify)

MOST VOTED ANSWERS

@ STACK OVERFLOW

- [1] Applications of dynamic programming in real world programming. (Read)
- [2] Minimum edge in a set of edges which connects a graph. (Read)
- [3] C/Linux: How to find the perfect number of threads to use, to minimize the time of execution? (Read)
- [4] Configure Azure deployment for Service Fabric. (Read)
- [5] "Stable" k-largest elements algorithm. (Read)
- [6] Inconsistency in determining directed graph's back edges via DFS. (Read)
- [7] Trying to create a multithreaded program to find the total primes from 0-100000000. (Read)
- [8] How to rotate in red black tree. (Read)
- [9] Merge Sort vs Quick Sort Implementation. (Read)
- [10] Bellman Ford Implementation and simultaneously relaxation. (Read)
- [11] About two threads alternately printing odd and even numbers. (Read)
- [12] "ERROR: py37: InterpreterNotFound: python3.7" when running tox from github. (Read)
- [13] Why actual runtime for a larger search value is smaller than a lower search value in a sorted array? (Read Question)

Read more on my [Stack Overflow Profile](#)

TECHNOLOGIES EXPLORED

MLflow, C, C++, Java, Node.js, Python3, Clojure, Microsoft Azure, Microsoft Service Fabric, Unit testing, Power BI, REST-API, S3

EXTRACURRICULAR ACTIVITIES

Kindly check the sections - "Community Service/Outreach", "Mentorship", and "Technical Events Moderated" on my portfolio website - <https://adeepak7.github.io>.

RESEARCH

ALGORITHMS LAB | COLLABORATIVE RESEARCHER

Jan 2020 – May 2021 | Walchand College of Engineering, Sangli, India

Worked with the Algorithms Lab investigator Prof. Kiran Kamble to develop novel algorithms that have real life use cases in e-commerce, supply chain, and transportation industry. See [Publications](#) section for my published/accepted articles.

EXPERIENCE

HELPSHIFT TECHNOLOGIES | SOFTWARE ENGINEER

Artificial Intelligence team | January 2022 – Present | Pune, India

- [1] Enabled the Smart Intent suggestions service/feature for new customers. Made time and space optimisations to model management that saved over 2000 minutes of AWS EC2 compute time. On-boarded this service on MLflow platform, and carried out migration of existing production ML models from S3 to MLflow platform without downtime.

MICROSOFT INDIA R&D | SOFTWARE ENGINEER

Core Platform Engineering team | June 2018 – Sep 2019 | Hyderabad, India

- [1] Made enhancements to log management service in Supply Chain Microservice Framework and developed centralized telemetry reports using Power BI with alerting mechanisms. Was responsible for the test-driven development of microservices with end to end functional test automation. Developed a Performance Testing Tool and Application Insights scripts to monitor the Service Level Agreements in production environments. Developed a Notification service to process the service orders created against Microsoft Devices with pending payment or payment on hold status. With my team, we developed the Scrap Evidence collection tool to avoid fraud service orders and **save \$10 Million/year for Microsoft Device Sales**. Designed a plug and play Task Group for Azure DevOps Build pipelines for maintaining code, quality, code coverage, and minimum required artifacts.

PUBLICATIONS

- [1] [MLFlow in production at Helpshift](#)
Deepak Ahire, Shyam Shinde.
Helpshift Engineering (Medium publication), November 2022.
- [2] [Finding all Edges on any Smallest Route connecting two nodes of a Directed Acyclic Graph using Parallel Computing](#)
Deepak Ahire, Kiran Kamble, Omkar Jadhav, Shubham Katakdhond.
Proceedings of the 9th International Conference on Innovations In Computer Science & Engineering (IICSE), 2021, Hyderabad, India.
- [3] [Finding the Kth Max Sum Pair in an Array of Distinct Elements using Search Space Optimization.](#)
Deepak Ahire, Smriti Bhandari and Kiran Kamble.
Proceedings of the 8th International Conference on Innovations In Computer Science & Engineering (IICSE), LNNS, Springer Singapore.
- [4] [Commentary - Methods to find all the edges on any of the shortest paths between two given nodes of a directed acyclic graph.](#)
Deepak Ahire, Omkar Jadhav
Research Ideas and Outcomes 7: e68600, May 2021.
- [5] [An Autonomous Intelligent System to Leverage the Post Harvest Agricultural Process using Localization and Mapping](#)
Amitash Nanda, Deepak Ahire
Proceedings of the International Conference on Intelligent Systems and Sustainable Computing (ICISSC) 2021, Hyderabad, India.
- [6] [Video Over Intranet \(VDOIT\).](#)
Deepak Ahire.
Research Ideas and Outcomes 6: e58504, September 2020.
- [7] [Why Has The Number Of Combo Recommendations Decreased On E-commerce Platforms?](#)
Deepak Ahire.
Analytics India Magazine, September 2020.

PROJECTS (MORE ON GITHUB)

- [1] [Speech To Code](#) (Microsoft LEAP Hackathon 2018) - This project aims to help physically challenged people who are passionate about programming so that they can code and contribute to the society. (Github) (Youtube)
- [2] [Video Over Intranet \(VDOIT\)](#) - Developed a WebRTC enabled web application in Node.js, which provides free peer to peer video calling and conferencing tool. (Github) (Project Report)
- [3] [Voice Over Intranet \(VOIT\)](#) - A p2p voice calling software developed in Java, which facilitates members of private organization to make audio calls over the intranet for free of cost. (Github)