

Deepak Ahire

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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](#)
CodeChef:// [@adeepak7](#)
Hackerrank:// [@ADEepak](#)
Kaggle:// [@adeepak7](#)
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, Tensorflow, C, C++, Java, Node.js, Python3, tox, Clojure, Microsoft Azure, Microsoft Service Fabric, Power BI, REST-API, S3, WebRTC

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.
- [2] Experience in building Siamese Neural Network to optimise the embeddings used for classification using Tensorflow.
- [3] Optimised ML pipeline that saved over 5000 minutes of AWS EC2 compute time.
- [4] On-boarded Smart Intents feature production ML pipeline on the MLflow platform, and carried out migration of the existing production ML models from S3 to MLflow platform without downtime.
- [5] Carried out python version and package upgrade of the AI backend services.
- [6] I have solid understanding of linear algebra, feature functions, OLS, and gradient descent algorithm.

MICROSOFT INDIA R&D | SOFTWARE ENGINEER

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

- [1] Enhanced log management of Supply Chain Microservice Framework, and developed centralized telemetry reports using Power BI with alerting mechanisms.
- [2] Was responsible for the test-driven development of microservices with end-to-end functional test automation.
- [3] Developed Application Insights scripts to monitor the SLA in production environments.
- [4] Designed a notification service to process the service orders created against Microsoft hardware devices with payment on-hold status.
- [5] Developed a Scrap Evidence collection tool to avoid fraud service orders which **saves \$10 Million/year for Microsoft Device Sales**.
- [6] 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 (ICICSE), 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 (ICICSE), 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](#))