Akhilesh Devrari

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EDUCATION

Indian Institute of Technology, Mandi

August 2016 – June 2020

Bachelor of Technology in Computer Science and Engineering

CGPA: 8.50/10

WORK EXPERIENCE

Microsoft India

Software Engineering Intern – June 2019 – August 2019

· Built a pipeline for automating deployment of applications on Kubernetes cluster.

· Built ASP.NET Core API for automatically creating Docker image for a given set of Document Classification models to be deployed to Kubernetes cluster.

· Modeled resource consumption for services running on Virtual Machines and in Kubernetes cluster and found up to 80% cogs saving for applications with low workload.

IIT Mandi

Teaching Assistant in CS202 (Data Structures and Algorithms), IC250 (Programming and Data Structures Practicum) and IC252 (Data Science).

PROJECTS

Neural Architecture Search

· Ongoing research project with Dr. Dileep AD as my Major Technical Project.

· Doing research on automating the process of designing deep learning neural networks.

Bird — *Interpreter*

· Created an interpreter for a simple programming language from scratch in C++.

· Added support for arithmetic operators, conditional and loop statements.

Normie — *Normalization tool*

· Created a web-application for finding normal form, minimal cover, closure and candidate keys of a relational database schema.

· Added functionality to convert a given schema to 3NF.

CodeGym — *Coding practice platform*

· Created a PHP web-application where users can practice coding problems in the form of self created coding contest for topics they want to practice.

· Included features like user performance charts, attendance and contest timer.

ACCOMPLISHMENTS

1st place in Topcoder IIT Mandi hackathon 2019. Built a utility to perform online eye tests for eye power and color vision.

94 rank in ACM ICPC Amritapuri regionals 2018–19. 118 rank in online qualifiers including 3 other regionals.

All India Rank 1785 out of 1.2 million participants in JEE Advanced 2016.

1st place in Avishkar 2016, Technical fest of IIT Mandi. Room automation project.

COURSEWORK

9/10 or higher grade:

Data Structures and Algorithms, Algorithm Design and Analysis, Artificial Intelligence, Paradigms of Programming, Applied Database Practicum, Linear Algebra, Probability and Statistics, Communicating Distributed Processes, Mathematical Foundation of Computer Science, Deep Learning and its Applications

SKILLS

Comfortable: C/C++

Familiar: C#, Python, Javascript, Scala, Prolog, PHP

Utilities: MySQL, HTML/CSS, Git, Linux shell, Docker, Kubernetes