

ARCHISHA CHANDEL

• COMPUTER ENGINEER •

Curiosity-driven individual striving to find ingenious solutions to real-world problems

EDUCATION

Bachelor of Engineering in Computer Engineering

8.0/10

Bharati Vidyapeeth College of Engineering, Mumbai

Jun 2016 - Jun 2020

Core Courses:

- Machine Learning
- Big Data Analysis
- Natural Language Processing
- Artificial Intelligence and Soft Computing

EXPERIENCE

Indian Institute of Science, India

Software Engineer

October 2020

Life Cycle Assessments (LCA) project to quantify the environmental impact of product life-cycles.

- Built web application using Flask/Python using HTML/JavaScript for server-side rendering.
- Deployed on Heroku.
- Achievement: reduced user error and effort required for modelling LCA studies in simapro and open lifecycle.

GirlScript Foundation, India

Data Science Mentor for The Uplift Project

Jun 2020 - Aug 2020

A global-remote initiative for people worldwide who want to talk about something fruitful. It provides a platform for like-minded individuals to meet, share and learn about topics that interest them.

- Led a project on Fraud Detection.
- Discussed the implementation of deep learning algorithms and neural networks.
- Conducted lectures on 'Machine Learning Techniques and Algorithms' and 'Deep Learning'.
- Guided 10+ individuals to learn and grow as data scientists.
- Achievement: Successful completion of the project through acts of strong leadership, supervision and team work.

Mozilla Foundation

Open Source Contributor for PRESC

Mar 2020 - May 2020

Performance Robustness Evaluation for Statistical Classifiers (PRESC) was selected as one of the projects under the Outreachy Summer Internship program 2020.

- Exhaustive research, study and experimentation on model suitability and evaluation techniques.
- Comprehensive report development on metrics to determine the confidence in selection of the model and its parameters for a particular dataset.
- Constant problem-solving approach emendation under the guidance of mentors and excellent team work.

Tvarit GmbH, Germany

Machine Learning Engineer

Dec 2019 - Jan 2020

Provides fast and customized solutions for all manufacturing problems and data science needs. Selected through the hiring challenge organized as a part of a winter internship application.

- Expanded the AI Platform through development and integration of 5 machine learning algorithms.
- Wrote unit tests and integration tests to increase the robustness of AI Platform.
- Created dashboards using Grafana for visualization of results obtained during integration of the algorithms.
- Jr. data scientist on the project titled- Prediction of Ideal Ambient Setting for Retail Stores.
- Achievement: Algorithms and dashboards developed are being used as a part of the AI platform and successful on-time completion and delivery of all the aspects of the project.

POSITIONS OF RESPONSIBILITY

National Level Technical Paper Presentation

Student Coordinator and Participant

Sep 2019

Organized in association with the Asian Society of Science and Technology with over 200+ participants.

- Successfully coordinated the participation in the Mumbai region.
- Hosting the welcoming ceremony and ensuring smooth event execution.

PROJECTS

Artificially Intelligent Game Bot

Final Year Project

May 2019 - May 2020

- Comparing different neural network topologies.
- Proving how NEAT evolves to optimize and complexify solutions simultaneously.
- Intra-college presentation of the understanding and experimentation work done.

Computer Pointer Controller

Edge Application

May 2020 - Jun 2020

Several models working together, each one covering a needed functionality to control the pointer depending on the facial features extracted, e.g. gaze estimation, head pose estimation, face detection.

People Counter App

Edge Application

Feb 2020 - Mar 2020

The app detects people in a designated area, providing the number of people in the frame, average duration of people in frame and total count built using Intel® Distribution of OpenVINO™ Toolkit.

Prediction of Ideal Ambient Setting for Retail Store

Machine Learning Application

Jan 2020 - Feb 2020

- Ambient settings- temperature, humidity, air pressure and luminescence were evaluated for 3 different retail stores
- Ideal range was predicted in order to optimize the basket size at any given time of the day for each store

EXTRA - CURRICULAR ACTIVITIES

AIDL Hackathon

Unifynd

Mar 2020

Worked in a team to extract information from bill/invoice (image) using deep learning algorithms.

- Using Python-tesseract for image segmentation and conversion to text.
- Recognition of text fields using NLP techniques.

HumAI

Tata Consultancy Services

Jul 2019 - Oct 2019

Semi-finalist in the national-level AI competition solving a natural language processing based problem statement proposed by StackOverflow on tag prediction.

SKILLS

- TensorFlow
- Apache Spark MLlib
- Natural Language Processing
- Vision
- Python

INTERESTS

- AI Hackathons
- Competitive Programming
- Mentoring
- Reading
- Debates