CHAUHAN **SARTHAK**

Dehradun, Uttarakhand India

(+91) 8535029872 | sarthak.chauhan496@gmail.com | https://github.com/elNiNo009 | /sarthak-chauhan-0a4182132

Professional Summary

Highly skilled computer science professional with a Master's in Computer Science with a specialization in Data Science. Proficient in coding, data structures, and algorithms, with expertise in C++ and Python. Experienced in applying deep learning and machine learning to solve complex problems. Strong track record of academic excellence, industry internships, and impactful research projects.

Education

International Institute of Information Technology – Bangalore
Bangalore, Karnataka

Master in Technology — *2018-2021*

- CGPA: 7.51/10

Govind Ballabh Pant University of Agriculture and Technology
Pantnagar, Uttarakhand

Bachelor in Technology — *2014-2018*

- CGPA: 6.72/10
- Gate CSE All India Rank 398

Doon International School
Dehradun, Uttarakhand

Intermediate — *2014*

- Percentage : 91.40
- Computer Science: 90%,Physics: 95%, Mathematics: 95%, Chemistry: 98%
- JEE MAINS 2014 99.94 percentile score

The Presidency International School
Dehradun, Uttarakhand

High School — *2012*

- Percentage : 87.60

Skills

Industry Knowledge : Programming, Data Structures, Algorithms, Machine Learning, Deep Learning

Tools : Github, JIRA, Anaconda, , VS code , Jupyter Notebook

Soft Skills : Research, Critical Thinking and Problem Solving, Time management, Adaptability and Flexibility.

Libraries : TensorFlow, Keras, NumPy, SciPy, Pandas, Matplotlib, SciKit-Learn

Experience

Technology Specialist
Integrated Nation Foundation (NGO), Dehradun India

June 2021 - Feb 2023

- Designed and implemented data collection mechanisms, ensuring data quality, integrity, and privacy while promoting efficient and scalable data gathering processes.
- Utilized machine learning techniques, such as classification and clustering, to derive actionable insights from the collected data, aiding in decision-making processes and resource allocation.
- Presented project outcomes and findings to NGO director and team, driving initiatives for improving health-care and addressing poverty in underserved regions.

Analyst Intern
Litifer Technologies and Pvt. Limited, Gurgaon India

Sep 2020 - March 2021

- Applied machine learning algorithms and techniques to analyze user data sets, enabling accurate forecasting of user behaviour and trends.
- Developed and implemented machine learning models to predict user preferences and patterns, resulting in improved personalized recommendations and user engagement
- Conducted data preprocessing, feature engineering, and data cleaning to ensure high-quality input for the machine learning models.

ADAS Research Intern

Siemens Technology Services Pvt. Ltd. Bangalore

Jan 2020 - April 2020

- Worked on tool Autoware.ai, a tool used for providing a virtual testing environment for automated driving algorithms.
- Intgration of Autoware.ai with ADAS tools developed by company.
- Monitoring logs generated by Autoware.ai and prepared analysis report for further improvements.

Certifications

Convolutional Neural Networks

Coursera

Feb 2020

- built a convolutional neural network, including recent variations such as residual networks.
- Applied convolutional networks to visual detection and recognition tasks.
- used neural style transfer to generate art and apply these algorithms to a variety of images, videos, and other 2D or 3D data.
- Applied knowledge of CNNs to one of the important (and most challenging) fields in computer vision: object detection.

Python Data Structures

Coursera

July 2018

- Learned the principles of Data structures
- Reading and writing from files.
- Used dictionary list and tuples.
- Concepts of sorting and searching

Research Project

Automated Urine Sample Analyzer

IIIT Bangalore

Aug 2019 - Jan 2020

- Conducted extensive research to understand the challenges and complexities associated with identifying artefacts in urine microscopy images and the need for accurate classification of clinically significant objects.
- Developed innovative techniques that adapt existing deep neural network architectures to support the identification and rejection of artefacts and objects belonging to unseen or unknown classes.
- Implemented state-of-the-art deep learning models, such as convolutional neural networks (CNNs), to analyze urine microscopy images and extract meaningful features for accurate classification and artefact rejection.

Google Data Analytics and Visualization

IIIT Bangalore

Jan 2019 - May 2019

- Conducted in-depth research using various machine learning libraries and unsupervised learning techniques to parse and analyze the 42 GB Google Cluster trace, aiming to gain insights into resource utilization in productive cloud data centers.
- Applied advanced statistical analysis techniques, such as outlier detection and correlation analysis, to identify instances of resource wastage and inefficient allocation in cloud data centers.
- Effectively utilized data visualization techniques to present the findings and insights in a clear and interpretable manner
- Developed and implemented unsupervised learning algorithms, such as clustering (e.g., K-means, hierarchical clustering) and dimensionality reduction (e.g., PCA, t-SNE), to uncover hidden structures and relationships within the Google Cluster trace data.

Honors and Awards

2018 **Global Rank: 141,** April Long Challenge Code Chef.
2018 **All India Rank: 398,** GATE CSE (Percentile: 99.63).
2017 **Winner,** Spardha (National Level Sports Fest) Game-Football.
2017 **Runner-up,** G.B.P.U.A.T Football tournament.
2016 **Runner-up,** G.B.P.U.A.T Football tournament.

Position of Responsibility

Teaching Assistant — *IIIT Bangalore*

Machine Learning — *2019-2020*

Event Head — *GBPUAT Pantnagar*

Soft-o-mania- Inter State event (Uttarakhand) — *2017*

Chairman — *GBPUAT Pantnagar*

Interface-Branch Chapter of Computer Engineering — *2017 - 2018*