

Ashirbad Sarangi

Curriculum Vitae

Plot 32I, Rajawala Road, Selaqui, Dehradun,
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WORK EXPERIENCE

Involead Services Pvt Ltd *Data Engineer*

FROM AUG 2018 (FT)

Delivered projects in Marketing Analytics for the FMCG industries using Media Mix Modelling which increased the profit by 10%. I also worked with a leading software company where I was assigned to automate many pipelines regarding daily data analysis and dashboards.

CodeStore Technologies Pvt. Ltd. *Software Engineer*

FEB 2018 – AUG 2018 (FT)

This position allowed me to develop and manage the entire frontend of an ERP and social media based application.

PROJECTS

Accelerating Evaluation

An Ant Colony optimisation algorithm to find the shortest path between two points in the map of India. This was applied using CPU and GPU and an analysis was made comparing the performance of both the platforms.

Long Term Recommender using stochastic Markov Decision Process

A Long Term Recommender adaptive to the user's desires using stochastic Markov Decision Process (MDP) where the main idea was to implement the policy iteration and optimise the reward received for each user.

Neural Networks

This includes implementing Neural Networks from scratch to be used as a universal approximator with certain advanced optimisations and regularisation techniques imbibed.

Game of Life

A simulator based on the Conway's Game of Life theory to analyse the interaction of individuals with the environment under certain rules and conditions.

Different Machine Learning Modules

Machine Learning models built from scratch that can be used with the datasets. It includes multiple models of regressors and classifiers which can be used to analyse the data at hand.

Cardify

A project towards making a ERP and social media based application using AngularTS

EDUCATION

- 2025 – 2023 **Master of Technology (M.Tech)**
Machine Learning and Computing
Indian Institute of Space Science and Technology
- 2022 – 2018 **Bachelor of Technology (B.Tech)**
CGPA : 9.55
Computer Science and Engineering
ICFAI University, Dehradun
- 2018 – 2016 **Higher Secondary**
PERCENTAGE : 84.8%
St. Xavier's High School, Kedargouri
- 2016 **Secondary**
CGPA : 10
St. Xavier's High School, Kedargouri

AWARDS

- 2022 **Silver Medalist**
ICFAI University, Dehradun

COMPUTER SKILLS

- BEGINNER Bash Shell Script, LaTeX
Taleau
- INTERMEDIATE C, C++,
AngularTS, HTML, CSS
- EXPERT Python, SQL, PySpark

PUBLICATIONS

Badoni, R.P., Kumar, S., Mann, M., Mohanty, R.P. and **Sarangi, A.**, 2024. *Ant colony optimization algorithm for the university course timetabling problem using events based on groupings of students*. In Modeling and Applications in Operations Research (pp. 1-36). CRC Press.

Kumar, S., **Sarangi, A.** and Mohanty, R.P., 2022, August. *Development of Automobile Recommender System Using Machine Learning and AHP Algorithms*. In International Conference on Recent Advances in Mechanical Engineering Research and Development (pp. 335-343). Singapore: Springer Nature Singapore.

Kumar, S., **Sarangi, A.** and Mohanty, R.P., 2021. *A hybrid recommender system: uniqueness of choices by using machine learning technique*. In Digital Conversion on the Way to Industry 4.0: Selected Papers from ISPR2020, September 24-26, 2020 Online-Turkey (pp. 3-13). Springer International Publishing.