

Harshit Chauhan

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EDUCATION

- **Maharaja Surajmal Institute of Technology, GGSIPU** New Delhi, India
Bachelor of Technology - Information Technology; GPA: 8.10 *July 2016 - June 2020*

SKILLS SUMMARY

- **Quantitative methods:** Supervised learning, Statistical Modelling, Clustering, Feature Engineering.
- **Languages:** Python, JavaScript, C++, C.
- **Frameworks Tools:** Python (NumPy, Pandas, Scikit-Learn, SciPy, NLTK), Pytorch, TensorFlow, Pyspark, Hive, Flask, NodeJS, Flutter, AWS, Docker.

EXPERIENCE

- **Tiger Analytics** Bangalore-Hybrid
Senior Data Science Analyst (Full-time) *Sep 2021-Present*
 - : Collaborated closely with one of the world's largest credit bureau to generate business insights, develop predictive models, and streamline data pipelines.
 - **Climate risk exposure:** Evaluated climatic risk impact on trades for different portfolios based on their trade patterns coupled with historic climatic risk data and developing a dashboard tool to compare with its peers.
 - **Credit risk:** Support credit bureau's decision to acquire new attributes or partner with a finance company to enhance existing models. Trained multiple tree-based models (D-Tree, Random Forest, LightGBM, XGBoost) and avoided overfitting using tree-pruning on highly unbalanced data. Identified best model through KS and Gini scores. Used Shap-plots and feature importance to determine top features.
 - **Data pipe-lining:** Automated and optimized data extraction pipeline using pyspark reducing execution time by 70%.
 - **Segmentation:** Identified consumer clusters for targeted product introduction based on individual characteristics. Provided comprehensive reports with insights from EDA and model results.
- **IIIT-D** Remote
Research Associate (Full-time) *Oct 2020 - Sept 2021*
 - **Advisor: Dr. Jainendra Shukla , Dr. Sonia Baloni Ray:** Working on an array of research problems related to HCI, Computer vision and role of physiological signals.

PROJECTS

- **Research - Tencent Advertising Algorithm Challenge-2021:** Advisors : Dr. Jainendra Shukla, Dr. Abhinav Dhall
 - : Secured 42/294 rank reaching into the semi-final stage with a GAP score of 0.78.
 - : Created a Video pipeline from scratch for C3D + NeXtVLAD in Pytorch.
 - : Text pipeline : Finetuned BERT model and Image pipeline : Resnet V2 50
- **Engage Me!:** Advisors : Dr. Jainendra Shukla , Mr. Vishal Saxena
 - : AI Empowered Attention Monitoring Tool for Improved Digital Learning among Children with Learning Disabilities.
 - : Developed both online and offline automated data collection protocols.
- **iSeeYou:** A complete eye tracking analysis kit using GazeML , opencv and pygame. This eye tracker performs a 9 point calibration and uses kalman filtering for smoothing along with that it allows the user to visualize the fixation plots and graphs at the end. [Link]

PUBLICATIONS

- **Short Paper: Engagement Analysis of ADHD students using visual cues from eye-tracker: ACM ICMI 2020**
[Paper] [Video]

HONORS AND AWARDS

- Got a chance to attend the prestigious summer school on latest computer vision advancements from the best in industry - CVIT, IIIT-H, 2021
- Received 3rd Rising Star award honourable mention for presenting a coarse-to-fine using a Mask-RCNN for seed segmentation and later a 3DCNN for seed orientation and center prediction - McMedhacks, McGill University, 2021
- Runner's Up at Technical Project Exhibition for Bonn'AI - IEEE, 2019
- Organised a 12 hours long hackathon at MSIT, Delhi with teams participating from all the premier technical institutes over Delhi - MSIT-Hackathon, 2019
- Runner up out of 283 teams at DTU, Delhi - HackDTU 3.0, 2019
- Runner up out of 50 teams at NSUT, Delhi for YogAI - Hack-Ok-Please!, 2018