Siddharth Sharma

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Sophomore (B.Tech)
Industrial Design &
at NIT Rourkela
CGPA: 8.85 till 4th sem

Links

Github:// **siddharthsharma**
LinkedIn:// **siddharth**
Binary Search:// **siddharth**
Devpost:// **pao0318**

Skills

LANGUAGES
Java, python

FRAMEWORK
Flask

Machine learning
Keras,scikit-learn, numpy,pandas
CNN, RNN, matplot, NLP, Open-CV
Tensorflow

Others
Android Studio, Figma,
Adobe Illustrator,After Effects
SublimeText, VS Code, Jupyter

Coursework

Data Structures Algorithm
Data Analysis
ML and Deep Learning
Tf lite and Tf.js

Education

2019-2023
B.TECH. IN INDUSTRIAL DESIGN
NIT ROURKELA
CGPA : 8.75/10

2016-208
INTERMEDIATE
Nirmala English School, RGP
Percentage: 88.5%

Till-2016
HIGH SCHOOL
Nirmala English School, RGP
Percentage: 93%

Achievements/Awards

Cascade challenge 2020-IIT Guwahati (Finalist) [Dec-Jan 2021]

• 2 month long Data Science challenge included Quiz round, model accuracy leaderboard
  and online presentation of the visualization of model.
• The problem statement was to classify age-group based on absenteeism dataset provided by them.
• Used XGBoost after preprocessing and updating parameters with Randomized Search thus improving
  F1score to 0 .81.

HUAWEI DIGIX-2020 Challenge (AIR-2 and Global rank-71) [September-2020]

• Task was to identify whether a user will click on ad or not from dataset taken from 3 years by the company .
• Took 30percent of data and preprocessed using random over sampling and scaled the data.
• Built deep neural network and used batches of data for getting weights from the model.
• Used the best model for prediction thus giving accuracy of 65 over test dataset.

Meme Poster (SELFIE HACKS MLH) Overall Winners [August-2021]

• Trained a Siamese network to learn human expressions into 16d embeddings using a dataset
  which contained multiple triplets of face images.
• Used transfer learning from InceptionV3 then built a custom CNN after that outputs 16d embeddings.
• Built a fun game MemoMania using the model, where the user needs to mimic a meme and
  they get a score on how good they mimicked.
• Calculated score by cosine similarity between embeddings ofmeme and user's image(scaled to0-1).

Side Projects

Recommendation Engine [March-July 2021]

• Gathered data of books by web scrapping from various sites and preprocessed it to model's input.
• Built 3 models for User Preferences, Collaborative Filtering and General rated books.
• Made a csr matrix, used hashing for each books features, fuzzy words for autocorrection
  and implemented knn for modelling.
• Vectorized features like genre and used cosine similarity for recommendation.

Classification of defaulter (Self Project) [July-2021]

• Built Support Vector Machines for classification using scikit-learn and the Radial Basis Function
  (RBF) kernel.
• Data was gathered from ULC Machine Learning Repository and did downsampling for training.
• Used One-Hot encoding for categorical, scaled and optimized parameters with Cross-Validation and
  GridSearchCV increasing accuracy to 76%.

Image Classifier (Capstone Project) [2021]

• Used SVHN Dataset which contained over 60,000 images obtained from house numbers in Google
  Street View images.
• Preprocessed the image converting them to grayscale and according to model's input.
• Built MLP neural network classifier as base model and then CNN classifier using Sequential API giving
  better accuracy with the help image data generator augmenting the images.

Extra-Curricullar Activities

Member|OpenCode Development club **2020-Present**

As a member of opencode we are actively involved in encouraging open source culture in our college
by conducting hackathons and various sessions for SDE,ML ,IOT etc. The hackathon called HackNitr
and with collaboration of DSC we try to create and evolve the coding culture of our institute.

Design Member| MondayMorning Student Media Body **2020-Present**

As a design member of Monday Morning I had the responsibility of designing several posters,
graphic designing, motion designing and illustrations. We created awareness among the students about
the daily happening, news and events, going on in our campus.

Work Experience

Product-Design Intern| Himpact Technologies **Nov-Dec 2020**

Built a POS system for a restaurant which handles the bookings and orders of the customers and
takeaways . There was also a separate interface for the chef to handle all the orders in the kitchen.
Researched and designed in Figma environment.