

SANJANA KOTHARI

sanjanak98@gmail.com | [linkedin.com/in/sanjana-kothari](https://www.linkedin.com/in/sanjana-kothari) | github.com/kotharisanjana | +91-7350220692

EDUCATION

Visvesvaraya National Institute of Technology, Nagpur

July 2016 - May 2020

B.Tech in Computer Science and Engineering

CGPA: 8.18/10

Fergusson College, Pune

2014 - 2016

Higher Secondary Education (Maharashtra State Board)

Marks: 93.3%

St. Helena's School, Pune

2002 - 2014

Secondary Education (ICSE board)

Marks: 96%

WORK EXPERIENCE

Wells Fargo EGS India Pvt. Ltd.

Bangalore, India

Program Associate, Data Management and Insights

Aug 2020 - Present

- Deliver data management solutions for enterprise-wide planning and decision making.
- Process automation for obtaining desired state of data in accordance with governance and risk frameworks.

Morgan Stanley India Services Pvt. Ltd.

Mumbai, India

Summer Analyst, Quality and Assurance

May 2019 - July 2019

- Automated 50 complex and lengthy test cases of a Portfolio Management Application.
- Used automation framework Selenium, with Java.
- Contributed towards increasing test coverage, early error detection and improved project delivery efficiency.

HCL Technologies

Remote

Student Intern, Data Analytics

Aug 2018 - Feb 2019

- Drew valuable insights from below 3 data sets by performing data transformation, analysis and visualization, using Python processing and visualization libraries.
 1. Fraudulent mobile money transactions
 2. Factors affecting attrition and performance of employees at IBM
 3. Customer purchase behavior against various products during Black Friday Sale
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SKILLS

Programming Languages: Python, Java, C

Database: SQL Oracle, PostgreSQL

ML Libraries: Keras

Web Framework: Django

Python Libraries: numpy, pandas, matplotlib, seaborn, scikit-learn

PROJECTS

News Aggregator

Nov 2020 - Present

- Built a news aggregator that displays top headlines and full news (category wise) from over 55 countries and 50,000 different sources. Incorporated the feature of searching for particular news articles according to some keyword, country, category or sources.
- Used Django along with Rest API (newsapi) to get news in real time. Currently working on implementing caching/database storing and refreshing using celery to reduce API calls.

Lung Cancer Detection using Image Processing & Deep Learning

July 2019 – July 2020

- Designed and implemented a 3D Deep Convolutional Neural Network to detect lung nodules from 3D CT scans and classify them into malignant or benign.
- Performed image processing to segment the nodules and applied data augmentation techniques to handle skewness in the input data.
- Obtained an accuracy of 87.77% and a significant reduction in the false positive rate.

Stock Price Prediction

Dec 2019

Time Series Analysis to predict the highest stock price of 30 companies over a period of 2 years using Long Short Term Memory in Keras. Got RMSE of 1.6.

Human Activity Recognition

Aug 2019 - Sept 2019

Classified sensor data captured through waist mounted smartphones into 6 different kinds of activities like running, sitting, etc. Implemented a neural network using Keras for the classification which gave 94% accuracy.

Forecasting Status of Hotel Bookings

April 2019

Performed EDA and utilized scikit-learn to predict the status of hotel bookings - cancelled or not.

Big Mart Sales Prediction

March 2019

A regression problem to determine sales across 10 Big Mart stores. Compared the performance of algorithms in scikit-learn.

HONOURS AND AWARDS

- Secured the 3rd spot in I-Hack, a software hackathon at IIT Bombay in February 2020.
- Scored 100/100 in Mathematics and Statistics and secured the 5th position among 1000 students in 12th grade board examination.
- Stood 3rd in school in 10th grade examination with 96%.

POSITIONS OF RESPONSIBILITY

- **Student Mentor - CSE Department, VNIT Nagpur** **2018 - 2020**
Mentored a group of 20 students in academic and non-academic related activities through their fresher and sophomore years.
- **Core Coordinator - Aarohi, VNIT Nagpur** **2017 - 2020**
Organizing committee member of Central India's largest cultural festival. Responsibilities included overseeing event registrations across the country and execution of the events. Contributed to the website development of Aarohi'19.
- Ladies Representative of CSE Department in sophomore year. Coordinated academic activities and led a team of 10 in organizing events.
- Girls Hostel Representative in first year. Headed a team of 12 assigned with the responsibility of managing hostel affairs.

EXTRA CURRICULAR ACTIVITIES

- Hobbies include classical dancing, painting and reading.
- Self-taught beginner in German.