# Gaurav Sen

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## PROFILE

Aspiring computer science student with a strong foundation in Data Analysis, Visualization, and Machine learning. Proficient in Python and data manipulation tools Pandas, Numpy. Experienced in building predictive models with Sci-kit Learn, TensorFlow ,conducting data exploration, and creating compelling Visualizations to uncover actionable insights. Seeking to apply technical expertise to solve complex problems and contribute to innovative projects.

## EDUCATION

**Sagar Institute of Research and Technology, Bhopal (M.P.)** Jul 2021 – present
*Bachelor of Technology in Computer Science Engineering* CGPA - 7.82

**Sarla Higher Secondary School, Maihar (M.P.)** Jul 2020 – Jul 2021
*Senior Secondary Examination* Percentage - 80.60%

**Sarla Higher Secondary School, Maihar (M.P.)** Jul 2018 – Jul 2019
*Higher Secondary Examination* Percentage - 69.80%

## TECHNICAL SKILLS

**Programming Language:** Python, Java

**Libraries/Frameworks:** Machine Learning (Sci-kit Learn), Data Visualization ( Matplotlib, Seaborn), NumPy, Pandas, Keras, TensorFlow,PyTorch

**Tools/Platforms:** Git, Github, VS Code, Anaconda

**Database:** SQL, MongoDB

## PROJECTS

**DiaPrognosis : Predictive Modelling for Diabetes**
*Python (Pandas , NumPy , Sci-kit Learn), Machine Learning, Flask*
- Developed DiaPrognosis to predict diabetes risk using Machine learning, involving data cleaning and model training with algorithms like logistic regression and decision trees.
- Produced cleaned datasets, trained models, and evaluation metrics to provide insights into diabetes risk factors

**Decentralized Voting System using Blockchain**
*Solidity , Framework(Ganache , Ethereum, MetaMask)*
- Developed secure and transparent smart contracts for voter registration and admin functionalities, leveraging blockchain technology to enhance trust and eliminate tampering in electoral processes.

**SkySage : Sage-Maker Powered Fare Predictive Model**
*Python , AWS Sage-Maker , AWS S3 , Machine Learning , Flask*
- Developed SkySage, a light fare prediction model with AWS Sage-Maker and S3, using data from 'Ease My Trip' for price forecasting through linear regression.
- Provided insights into fare variations by airline, departure time, and class, aiding informed booking decisions for X users.

**WaferWarden : ML Based Anomaly Detection in Sensors**
*Python (Pandas , NumPy , Sci-kit Learn), Machine Learning, Flask*
- Investigated semiconductor manufacturing defects using machine learning and deep neural networks, leveraging the SECOM dataset for classification.
- Evaluated methodologies such as ensemble learning and Support Vector Machines, addressing data imbalance and noise through innovative preprocessing.

## CERTIFICATES

- Oracle Cloud Infrastructure AI Certifed - Oracle
- Data Analytics Essentials - CISCO
- Data Science Masters - PW Skills
- Data Science & Analytics - HP LIFE
- Machine Learning - NPTEL