

# RIYA SETHIA

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## OBJECTIVE

A highly motivated Computer Science Engineering graduate specializing in Artificial Intelligence and Machine Learning, with practical knowledge in developing predictive models, web applications, and big data tools like Hadoop, Hive, and Spark. Skilled in Python, Java, and SQL, with a strong focus on problem-solving and innovation. Looking to develop my skills and to know more about new technologies.

## EXPERIENCE

### National Institute of Technology, Raipur | Intern | 05/2022 - 06/2022

- Completed a project-based internship focused on **Artificial Intelligence (AI)** and **Machine Learning (ML)**, applying Python to solve real-world problems.
- Developed and optimized a **Diabetes Prediction Model** using **Random Forest Classifier**, achieving a high prediction accuracy of **96.8%**

### Bhilai Steel Plant- [SAIL] | Intern | 07/2023 - 08/2023

- Enhanced operational efficiency by implementing a **data visualization tool** on BSP's live server for real-time monitoring of key business metrics. Streamlined data-driven decision-making processes for stakeholders at all organizational levels.

## PROJECT

### Real-Time Facial Expression Recognition

- Developed a computer vision system to detect and classify facial expressions in real-time using **OpenCV** and **Convolutional Neural Networks (CNNs)**
- Achieved an accuracy of **65.5%**, successfully predicting seven distinct classes: **sad, happy, angry, neutral, surprise, fear, and disgust**.

### E-Commerce Website – Apparel 360

- Designed and developed a full-stack E-commerce platform using the **Django framework**, following **Object-Oriented Programming (OOP)** principles.
- Implemented key functionalities such as **user authentication**, **CRUD operations** for product and category management, and a seamless **checkout process** and integrated a **MySQL database**

### Stock-Stream-Analyzer

- Real-time data processing pipeline designed to analyze stock market data and provide actionable insights through dynamic dashboards.
- This project integrates cutting-edge technologies like- Apache **Kafka** · Apache **Spark** · Amazon Relational Database Service (RDS) · **MySQL** · **Python**

### Probability of Next 3-word Generation

- Developed a Natural Language Processing (NLP) model using **LSTM** (Long Short-Term Memory) to predict the next three words in a sequence. Utilized a corpus containing **19,122** unique words extracted from a dataset of **48,320** words.
- Applied data preprocessing techniques such as tokenization, one-hot encoding, text cleaning, and sequence padding
- Trained the model to generate word sequences with a prediction accuracy of **57%** and a final loss value of **1.9**.
- Integrated the trained ML model with a **Flask backend** to provide real-time word predictions and deployed it as a responsive web application.

## EDUCATION

### PG -DIPLOMA-September 2024-OnGoing

C-DAC: Centre for Development of Advanced Computing, India

### B-tech- 2020 - 2024 | GPA: 8.6

Shri Shankaracharya Technical Campus in CSE [AI-ML]

### MGM BHILAI

Secondary School Certificate |2018 | percentage: **85.4%**

Higher Secondary Certificate | 2020 | percentage: **79.8%**

## TECHNICAL SKILLS

- Programming language:** Python, R, Java
- Data analysis and visualization:** Pandas, Numpy, Matplotlib, Power BI, Tableau
- Big data tool:** Hadoop, Hive, Spark, Kafka
- Amazon Web Service (AWS)**
- Database:** SQL
- Operating System:** Linux