

# Ujjawal Goel

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## EDUCATION

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- **Bachelor of Technology - Computer Science** Ghaziabad, India  
*Raj Kumar Goel Institute of Technology; GPA: 8.28* July 2018 - June 2022
- **Intermediate (Science)** Muzaffarnagar, India  
*Kasturi Devi Public School ; 74%* April 2017 - March 2018
- **High School** Muzaffarnagar, India  
*Kasturi Devi Public School ; GPA: 9.6* April 2015 - March 2016

## SKILLS SUMMARY

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- **Languages:** Python, C, C++, Structured Query Language (SQL), JavaScript
- **Frameworks:** Flask, Django, Tkinter, NumPy, Pandas, Matplotlib
- **Tools:** GIT, PostgreSQL, MySQL, QGIS
- **Soft Skills:** Leadership, Adaptability, Public Speaking, Time Management

## EXPERIENCE

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- **Tata Consultancy Services (TCS)** Noida, India  
*Full Stack Python Developer (Full-time)* July 2022 - Present  
**Project:** WebGIS (Web Based Geographic Information System)
  - **Solution Design:** Collaborated with business analyst and stakeholders to understand integration requirements and designing solutions that meets those needs efficiently.
  - **API Development:** Designed and implemented secure backend APIs with Flask and Python to facilitate seamless data exchange between various software components.
  - **DataBase Management:** Managed end-to-end responsibilities for database systems, from conceptualization to optimization, employing PostgreSQL as the core engine and utilized pgAdmin for efficient monitoring.
  - **Security:** Employed industry-standard SHA-256 and SHA-512 encryption algorithms to enhance the security, ensuring that sensitive information remains secure even in the event of a breach.
  - **Efficiency and Optimization:** Improved the efficiency of database queries by optimizing queries and fixing crucial bugs, resulting in a 40% reduction in response time and improved overall system performance
- **CETPA Infotech Pvt. Ltd.** Noida, India  
*Machine Learning Intern (Internship)* Jan 2021 - Feb 2021
  - **Refined Data Processing:** Played a key role in sourcing, refining, and preparing diverse datasets to ensure their optimal suitability for analytical processes with the help of NumPy, Pandas, Matplotlib and ML algorithms.
  - **Data Exploration and Analysis:** Applied machine learning algorithms for Analysis and Data Exploration and experimented with various machine learning algorithms to optimize model performance.

## PROJECTS

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- **Covid-19 Data Analysis Project using Python:**
  - Statistical Data Visualization using Bar graphs and Scatter plots with Pandas, Matplotlib and Plotly.
  - Visualization over the Indian map by using folium.
  - Comparison between different countries by making subplots using Plotly.
  - Analysis of how the Covid infection grows with time and location all over the world.
- **Bank Note Authentication :**
  - Developed a classification predictive model for banks to check whether the notes are authentic or not.
  - Trained the model with the RF algorithm and the accuracy is 98%
  - Deployed model using Flask and Flasker.

## PUBLICATIONS

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- **Exploratory Data Analysis of Covid-19 Outbreak Situation in India** : Published a paper in International Journal for Research in Applied Science and Engineering Technology (IJRASET).

## HONORS AND AWARDS

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- Received recognition for excellent problem-solving skills after successfully resolving a critical issue.
- Achieved a 5-star certification on HackerRank for Python proficiency, demonstrating exceptional coding skills.
- Achieved a significant milestone by successfully solving 150+ Data Structures and Algorithms challenges on GFG.
- Received recognition for consistently meeting project deadlines and delivering high-quality software solutions.