**DHEERAJ DUBEY**

**SOFTWARE DEVELOPER**

A black and white outline of an open envelope with a paper in it

Description automatically generated[**dheerajdubey600@gmail.com**](mailto:dheerajdubey600@gmail.com)[A black and white logo with a square and a circle

Description automatically generated**LinkedIn**](https://www.linkedin.com/in/dheerajdubey19/) [A black cat in a circle

Description automatically generated](https://github.com/DheerajDubey19)[**GitHub**](https://github.com/DheerajDubey19/) **(+91)8287352544 [](https://dheerajdubey19.github.io/Portfolio/)**[**Portfolio**](https://dheerajdubey19.github.io/Portfolio/)

**EDUCATION**

**B. Tech in Computer Science Engineering 10/2020 – 07/2024**

Bhilai Institute of Technology Raipur | CPI-8.73

**Secondary and Senior** **Secondary**  **04/2017 – 06/2018** M.M Public School Pitampura, Delhi | Percentage- 67%

**SKILLS**

**Programming** **Languages** : Python, C/C++, JavaScript

**Backend** **Framework** : Django, Flask

**Database** **:** MySQL, PostgreSQL

**Frontend :** HTML, CSS

**Machine** **Learning** : Scikitlearn, Pandas, Linear Regression, Decision Tree, Random Forest

**Others :** Swagger, Replit, GIT, Cache , Thunderclient

**EXPERIENCES**

**Machine Learning Intern, INTERNSHIP STUDIO 07/2023- 08/2023**

 Engineered predictive models using LR, SVM, DT, RF resulting in a 15% boost in accuracy.

 Conducted in-depth comparative analysis and model fine-tuning, enhancing prediction accuracy by 20%.

 Played a significant role in the "YouTube Ad View Prediction" project, achieving a 10% improvement in model

performance through advanced machine learning techniques.

**PROJECT**

[**Pose Perfect**](https://github.com/DheerajDubey19/POSEPERFECT)[A black cat in a circle

Description automatically generated](https://github.com/DheerajDubey19/POSEPERFECT) **06/2024 – 07/2024**

Technology Stack – React.js, Python, Django, REST API, SQLite

**Key Responsibilities –**

* Pose Perfect is an interactive web application designed to guide users' postures during exercises.
* Engineered **5 REST APIs** for Login, Signup, User Profile, and Exercise Details:
* Applied **in-memory** caching techniques to ensure API response times are consistently below **500ms**.
* Administered user authentication through **JWT tokens** and enforced measures to prevent **CSRF attacks**, enhancing the overall security of the application.

[**File Transformer**](https://github.com/DheerajDubey19/File_Transformer)[A black cat in a circle

Description automatically generated](https://github.com/DheerajDubey19/File_Transformer) **05/2024 – 06/2024**

Technology Stack – Python, Django, Pandas, Matplotlib, HTML, CSS, SQLite

**Key Responsibilities –**

 Design and built a Django application to transform unstructured Excel files, utilizing a predefined mapping file.

 Processed input files via the frontend, transforming them with a backend-stored master mapping file.

 Generated structured output files (output.xlsx) with over **10,000 rows of data**, available for direct download.

 Transformed data for **16+ insurance products**, including "Health-Retail" and "Motor TP."

[**Personalized Parent Blog System**](https://github.com/DheerajDubey19/Personalized_Parent_Onboarding_System)[A black cat in a circle

Description automatically generated](https://github.com/DheerajDubey19/Personalized_Parent_Onboarding_System) **03/2024 – 04/2024**

Technology Stack – Python, Django, Rest API, Swagger, SQLite

**Key Responsibilities –**

 Constructed a comprehensive REST API service for onboarding and blog management.

 Performed **full CRUD operations** for parent and child profiles.

 Developed a personalized feed system with **3 filtering options** like age, gender, parent type.

 Optimized database performance with non-clustered indexes, ensuring response times under **800ms**.

[**Facial Emotion Recognition**](https://github.com/DheerajDubey19/Facial_Emotion_Recognition)[A black cat in a circle

Description automatically generated](https://github.com/DheerajDubey19/Facial_Emotion_Recognition) **12/2023 – 01/2024**

Technology Stack – Python, OpenCV, Tensorflow

**Key Responsibilities –**

 Created a Facial Emotion Recognition system using ResNet50 to identify **7 emotions**.

 Built and thoroughly cleaned a custom dataset of over **7,000+ images** and **1500+ audio** to ensure high-quality input.

 Trained the ResNet50 model to achieve **89% accuracy**, ensuring reliable emotion classification in real-world scenarios.

**CERTIFICATION**

* [**Data Science & Machine Learning Complete Course**](https://drive.google.com/file/d/1gO5HBeY8Qra2x044tygyzk_lmkOGfjeR/view?usp=sharing)  **05/2022– 12/2022**
* [**Programming with Python**](https://drive.google.com/file/d/1EBdQMwqm6LFwNewOVegx8IWYuQCOVecD/view?usp=sharing) **06/2022– 08/2022**

**ACHIEVEMENT**

* Led a team of 6 members in the Smart India Hackathon to address the **Parking Allotment System** problem statement.
* Won the group discussion at the college techfest on **"Gym vs Yoga"** highlighting strong communication and convincing

skills.