**DHEERAJ DUBEY**

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

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Description automatically generated](https://www.linkedin.com/in/dheeraj-dubey-992ba8227)[**LinkedIn**](https://www.linkedin.com/in/dheeraj-dubey-992ba8227/)[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/)

**ABOUT ME**

Highly motivated Computer Science graduate specializing in Python programming, API, and backend development, and machine learning. Proficient in crafting scalable solutions, predictive models, and interactive web applications. Demonstrated expertise in developing innovative solutions and driving technical advancements. Eager to leverage analytical skills and technical acumen in a dynamic software engineering role.

**EDUCATION**

**B. Tech in Computer Science Engineering**

Bhilai Institute of Technology Raipur |10/2020 –07/2024| CPI-8.8

**Secondary and Senior** **Secondary**

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

**SKILLS**

* **Programming** **Languages** - Python, C/C++
* **Backend** **Framework** - Django, Flask
* **Database** **-** MySQL, PostgreSQL
* **Machine** **Learning** - Scikitlearn, Pandas, Linear Regression, Decision Tree, Random Forest
* **Others -** Swagger, Replit, GIT, Cache , Thunderclient, Problem Solving

**EXPERIENCES**

**Machine Learning Intern, INTERNSHIP STUDIO**

**07/2023- 08/2023**

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

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

 Significantly contributed to 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)**

Technology Stack – React.js, Python, Django, REST API, CNN, TensorFlow, Open CV, SQLite

02/2024 – 05/2024

Key Responsibilities –

 Developed **5 REST APIs** for Login, Signup, User Profile, and Exercise Details.

 Designed the **database schema** for efficient data management.

 Utilized in-memory cache to maintain API response times under **500ms**.

 Secured user authentication with **JWT**, mitigating **CSRF threats**.

 Implemented real-time pose estimation using MediaPipe and CNN for joint angle analysis.

[**Personalized Parent Blog System**](https://github.com/DheerajDubey19/Personalized_Parent_Onboarding_System)

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

05/2024 - 06/2024

Key Responsibilities –

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

 Executed full CRUD operations for parent and child profiles.

 Developed a personalized feed system with dynamic filtering options.

 Integrated **Swagger** for detailed API documentation.

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

[**Facial Emotion Recognition**](https://github.com/DheerajDubey19/Facial_Emotion_Recognition)

Technology Stack - Python, OpenCV, CNN, Tensorflow

12/2023 – 01/2024

Key Responsibilities –

 Created a Facial Emotion Recognition system using ResNet50 to identify **7 emotions**, incorporating both audio and

video data.

 Built and meticulously cleaned a custom dataset to ensure high-quality input.

 Applied data augmentation techniques to improve model robustness and generalization.

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

 Implemented the system to process and analyze multimedia inputs for comprehensive emotion recognition.

**CERTIFICATION**

* [**Internshala - Programming with Python**](https://drive.google.com/file/d/1EBdQMwqm6LFwNewOVegx8IWYuQCOVecD/view?usp=sharing)
* [**Coding Ninjas - Data Science & Machine Learning Complete Course**](https://drive.google.com/file/d/1gO5HBeY8Qra2x044tygyzk_lmkOGfjeR/view?usp=drive_link)