NABEEL AHMED ANSARI

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EDUCATION

CITY UNIVERSITY OF NEW YORK - CITY COLLEGE OF NEW YORK — **New York City, NY**
Master of Science, Major in Computer Science. GPA- 3.82 — *Aug 2023 – Present*
RELEVANT COURSEWORK: Machine Learning, Deep Learning, Data Structures and Algorithms, Operating System

DEVI AHILYA VISHWAVIDYALAYA — **Indore, India**
Post Graduate Diploma in Computer Application, Major in Computer Science — *Sep 2021 - June 2022*

SAGE UNIVERSITY INDORE — **Indore, India**
Bachelor's in Computer Application, Major in Computer Science — *Aug 2018 - June 2021*

TECHNICAL SKILLS

Languages: Python, C/C++, Shell Scripting, Bash, Java, JavaScript, HTML, CSS, SQL.
Database: MYSQL, Microsoft SQL Server, SQLite3, MongoDB.
Frameworks: PyTorch, TensorFlow, OpenCV, Django, Flask, Angular, Node.js, React.
Developer Tools: Git Version Control, Visual Studio Code, PyCharm, Google Colab.
Other Tools: AWS, SysAid, VMware

EXPERIENCE

IT Support Assistant — *Feb 2024 – Present*
The City College of New York – CUNY — *New York, NY*

- Designed and implemented automation routines for tasks and Manage **license compliance**.
- **Create, test, and deploy Windows images** using tools like MDT or SCCM, and Handle **bug fixes** and **troubleshoot deployment issues**.
- Managed and maintained **Active Directory** of **520**+ users
- Used **SysAid** for managing IT operations, including incidents, assets, and service desk, enhancing efficiency.

Tutor — *Oct 2019 - Dec 2019*
Computer Science Tutor — *Indore, India*

- Instructed high school students in Python, database and computer science concepts and applications resulting in an average improvement of 40% in their academic scores.
- Assessed student strengths and weaknesses and adapted teaching methods accordingly.

PROJECTS

Movie Recommendation System | *Python, Scikit Learn, Beautiful-soup, Flask, NLTK, TMDB API* — *Aug 2024 – Dec 2024*

- Engineered recommendation engine using **cosine similarity** based on Natural Language processing with **accuracy score of 97%**
- Implemented real time **web scraping** using **BeautifulSoup4** to extract user reviews from IMDb, leveraging the IMDb ID from TMDB **API responses**.
- Conducted **sentiment analysis** on extracted reviews to classify user feedback as positive, neutral, or negative.

Essay Scoring System | *Transformers (Hugging Face), PyTorch, scikit-learn, Pandas, NumPy, Matplotlib.* — *Jan 2024 – May 2024*

- Achieve a prediction accuracy with a **Quadratic Weighted Kappa (QWK) score of at least 0.80** to ensure high-quality grading.
- Fine-tune a Funnel Transformer model using **10-fold cross-validation** to train the model for optimal performance in predicting essay scores.
- Maintain a **validation loss under 0.40** to ensure the model generalizes well to unseen data.
- Analyze the confusion matrix to ensure correct classification, aiming for an error rate of **<5%**across the 6 scoring categories.

Face Recognition Attendance System | *Python, TensorFlow, Keras, SQLite3, Tkinter, OpenCV* — *Jan 2023 - Apr 2023*

- Computer vision is leveraged through **OpenCV** with real-time facial recognition to automate attendance recording that reduces error by 98%.
- Utilized advanced facial recognition technology, mapping 128 features to create a 3D grid-like structure for highly accurate identification.

System for Managing Online Examination | *HTML, CSS, Bootstrap, JavaScript, AngularJS, Node.js, MongoDB Jan 2022 - May 2022*

- Led a team of 3 on the project to streamline entrance exam procedures through a paperless, online system, enhancing transparency and efficiency.
- Demonstrated dedication to modern web development and database practices, emphasizing user-friendly solutions for automating and optimizing entrance exams.

Bird Species Identifier | *Python, TensorFlow, Keras, Tkinter, Flask* — *Jan 2021 - May 2021*

- Processed a Kaggle dataset of 38,518 images from 270 bird species, optimizing image relevance and standardizing dimensions.
- Achieved high accuracy, with 97%using the Xception model and 94%with MobileNetv2, while overcoming initial resource constraints by leveraging Google Colab's GPU and TPU resources.