

# ABDUL KHADAR JILANI

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## EXPERIENCE

### Bluestock Fintech | SDE Intern

Aug 2024 - Present

- **Led the development of an IPO web application and REST API** using Python, Django, Django REST Framework, and PostgreSQL, optimizing backend processes. Applied skills in database design, API development, and authentication for robust and scalable solutions.
- Engineered the front-end using HTML, CSS, JavaScript, and Bootstrap 5, ensuring responsive and user-friendly interfaces with a focus on real-time API implementation and seamless frontend interaction.

### SmartInternz | Machine Learning and Deep Learning Intern

Jan 2023 - May 2023

- Applied machine learning and deep learning algorithms, including classification and regression models, to solve real-world challenges, contributing to a 20% improvement in predictive accuracy for critical business processes.
- Specialized in applying advanced supervised and unsupervised learning techniques, achieving a 92% accuracy rate in face and object recognition tasks. **Developed and fine-tuned deep learning models**, including convolutional neural networks (CNNs) and recurrent neural networks (RNNs), which led to a 15% enhancement in model performance and robustness across various recognition tasks.

## EDUCATION

### Bachelor of Technology, Artificial Intelligence and Data Science

2020 - 2024

Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru

CGPA: 8.98/10.00

### Intermediate

2018 - 2020

Sri Chaitanya Junior College, Gudivada

CGPA: 9.65/10.00

## SKILLS

- **Programming/Scripting Languages:** C, Python, Java
- **Web Technologies:** HTML 5, CSS 3, PHP, Bootstrap 5, JavaScript, MySQL, MongoDB
- **Tools and APIs:** Git, GitHub, VS Code, Postman, Docker, Huggingface, LLMs, GenAI APIs,
- **Frameworks and Libraries :** Django, Flask, RESTful API, Pandas, TensorFlow, PyTorch, Transformers, Langchain
- **Coursework:** Data Structures, Algorithms, OOPs, Artificial Intelligence, Machine Learning, Data Analytics

## PROJECTS

### Advanced Chatbot and PDF Interaction Application *Python, Langchain, Huggingface, LLMs, Retrieval-Augmented Generation (RAG).*

- Enhanced user experience through advanced conversational AI and efficient document management, achieving seamless integration and improved information retrieval.
- Enabled natural, context-aware conversations with LLMs and deployment in Huggingface spaces

### GenAI-DBManager powered by Gemini API

*Python, SQLite, Streamlit, Gemini API*

- **Text-to-Query Functionality:** Integrated a feature that allows users to input text-based queries, automatically checking the database and providing accurate results, enhancing user experience and data retrieval. cutting average search and analysis time by 25% through real-time query generation and an intuitive interface.
- **Boosted SQL accessibility by 20%** for non-technical users, simplifying data exploration and query generation.
- **Attained 95% query accuracy** by fine-tuning the Gemini model, reducing manual error corrections and enhancing data exploration efficiency, reducing the need for manual error correction and improving the overall efficiency of the data exploration process.

### AI-Based Drug Recommendation System

*Python, NLTK, Scikit-Learn, TF-IDF, HTML, CSS*

- Utilized **Natural Language Processing (NLP)**, **Machine Learning** techniques to develop a highly accurate drug recommendation system, achieving an exceptional **96% accuracy** rate.
- Performed comprehensive analysis of patient data, leveraging data mining and statistical techniques on medical history and current medications, resulting in a 30% increase in predictive model precision.
- Designed and implemented an intuitive user interface for symptom input and customer/patient reviews, resulting in a remarkable 25% increase in user engagement.

### Integrating Deep Learning for Eye-Blinking Based Strain Analysis

*Python, OpenCV, Deep Learning library*

- Led the development of an advanced Strain Analysis system, achieving a 98% accuracy rate by leveraging **dlib** and **shape predictor** datasets for precise eye movement tracking.
- **Implemented a sophisticated alert mechanism** that issues real-time notifications based on comprehensive blinking pattern analysis, resulting in a 30% reduction in eye strain cases.