ABHIYANK YADAV

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PROFILE

I'm a result-driven professional with expertise in machine learning, deep learning, and software development. Excelling in building AI-driven systems, developing data pipelines, and deploying models using Python, TensorFlow, and Django. My skill set enables me to automate workflows and implement scalable solutions, making a significant impact in various projects and domains

EDUCATION

VIT Bhopal University   **Bhopal, India**
Integrated M.Tech in Data Science, CGPA: 8.97   *September 2022 – Present*

SKILLS

Languages: SQL, Python, R, C++, HTML, CSS, JavaScript
Frameworks & Libraries: Django, TensorFlow, React.js, NLP, Machine Learning, NumPy, Pandas, Scikit-learn, Matplotlib
Tools: Power BI, Excel, Postman, VS Code, Git, GitHub, Jira, Notion, Flutter, Figma
Cloud & Databases: GCP, AWS (S3, Athena, EC2), MongoDB, SQLite, MySQL Workbench, DBSqlite3

PROJECTS

Well Scan   **May 2024**
- Designed an AI-driven healthcare platform to predict organ-specific conditions (heart, kidney, thyroid, arthritis, liver) and diseases (e.g., diabetes), achieving over 90% accuracy with Random Forest and Decision Tree models.
- Integrated a Gemini API-powered chatbot using Python, Django, and OpenCV, delivering 24/7 medical guidance and preventive care recommendations.
- Enhanced user experience by incorporating real-time doctor availability; this innovation resulted in a 25% reduction in missed appointments and improved overall user engagement with the health dashboard.
- GitHub: Well_Scan

Emotional Intelligence AI (Project Rumi)   **November 2024**
- Engineered an AI platform for paralinguistic sentiment analysis, predicting emotional tones from voice inputs with 93% accuracy using CNN and RNN models, leveraging CREMA-D and RAVDESS-8k datasets.
- Optimized data preprocessing pipelines for a UNet-based denoising model, reducing latency by 20% and enabling real-time emotional support recommendations.
- Implemented feature extraction with Librosa (pitch, formants, spectral centroid, MFCCs) and authored a research paper documenting findings, contributing to advancements in emotional intelligence AI applications.

Cognitive E-KYC   **March 2025**
- Built an AI-combined e-KYC platform integrating Tesseract.js for OCR (92% accuracy) and DeepFace for face verification (96.8% accuracy) to ensure secure identity validation.
- Leveraged Random Forest (98.2% accuracy) and UIDAI Aadhaar API (100% validation) to enhance fraud prevention and authentication reliability.
- Applied 128-bit AES encryption and SHA-256 hashing with PyPDF and Python libraries for secure PDF encryption and sharing, achieving end-to-end latency under 10 seconds, optimized for financial applications.

COMPETITIONS

- Crafted Well Scan for a national-level health hackathon hosted by VIT Bhopal and Johns Hopkins University, delivering an AI-accelerated health dashboard featuring disease prediction, doctor appointment booking, and hospital locator functionalities (2025).

ACHIEVEMENTS

- Ranked Ninja Dominator (Top 1%) at Coding Ninjas (15,000+ XP) with 16+ badges in expertise concepts.
- Solved 200+ LeetCode DSA problems, showcasing expertise in algorithmic strategies and data structures.
- Passed the NPTEL Foundations of Cryptography course, one of the most challenging courses with a 5% passing rate, highlighting dedication to advanced learning.

CERTIFICATIONS

- **Swayam - NPTEL** – Jan-April 2024 (Link)
- **Applied Data Science with Python Specialization by University of Michigan** – November 2024 (Link)
- **UDEMY - Mastering Data Structures & Algorithms using C and C++** - November 2024 (Link)
- **Databases for Developers** – Oracle (Link)