DHRUV CHANDRA

Data Analyst

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SUMMARY

I am a Software Engineer with **3+ years of experience** in **developing, testing, and deploying** web applications using **Python**. Currently pursuing an **eMasters Degree** (equivalent to **Master's**) in **Data Science in Decision Making** from **IIT Gandhinagar**, I have developed my expertise in **Statistical Analysis**, **Machine Learning** and **AI**.

As a **Production Support Developer** within a service-oriented organization, I have honed my ability to **communicate effectively** and **gather comprehensive requirements** aligned with client needs. My strong commitment to **meeting deadlines** has consistently ensured the **successful** and **timely delivery.**

I am seeking a challenging opportunity to apply my **software engineering** and **data analysis skills** in a dynamic and **rewarding environment**.

SKILLS

Programming: Python, SQL, Software Development - Production Support, Testing, MATLAB, R.

Data Analysis and Visualization: Statistical Data Analysis (Linear/Non-Linear Regression), Data Engineering.

Machine Learning and Analytics: Feature Engineering, Data Science, Predictive Modelling, Model –

Evaluation, Monitoring and Optimization, Regression, Classification, Computer Vision – Image Processing, DL (ANN, CNN, LSTM), NLP, Time

Series.

Software Tools: AWS – EC2, SQL Server, Generative AI (Gen AI) – LLMs.

Frameworks: Streamlit, Flask, TensorFlow.

Soft Skills: Business Understanding, Requirement Gathering, Communication, Creativity, Critical Thinking,

Problem Solving, Research Enthusiast.

WORK EXPERIENCE

Gen Al Developer (Freelance) mPass

July 2024 – Present

- **Developed BlogBotter:** An Al-powered agent using **Python's Streamlit** library designed to **generate fresh blogs** or **enhance the SEO score** of an **existing one**.
- Multi-Model Flexibility: Integrated multiple LLMs, including Google's Gemini 1.5 Flash, OpenAl's GPT-4, and Meta's LLaMA 3.1, offering variability and customization based on user needs.
- Automated Content Optimization: Implemented a process where BlogBotter retrieves the top 5 URLs from Google Search (using Python's GoogleSearch library), analyzes content with WordNetLemmatizer, and extracts the top 10 keywords to guide the new blog's focus.
- Performance Efficiency: BlogBotter can generate a new blog within 15-16 seconds and optimize the SEO score of an existing blog within 19-23 seconds, utilizing advanced keyword extraction and modeldriven text generation.

Software Engineer

Coforge, Noida. Sep, 2021 - Present

- Automated the process of filling Word documents with Mail Merge fields and converting them to PDF by
 creating a python code script, achieving a speed of over 3,000 documents within 20 minutes, saving 3-4
 months of manual testing and \$1200 per user fees of Aspose.
- **Developed** a **lightweight XML parser** that displayed the attributes and properties of any XML file in a tabular format, **reducing memory usage** by **27%**, as compared to the previously used application.
- Created a new "Cancel Pending" transaction, from scratch, which acts like a warning for the Insurer
 before processing a cancellation, which also included a custom modification of having the Cancellation
 Premium displayed during Cancel Pending, reducing the need for actual cancellation in more than 86%
 cases.

Graduate Engineer Trainee

Coforge, Noida. Jul. 2021 – Aug. 2021

Ranked 3rd among 30 trainees at the bootcamp's final assessment evaluating Insurance Knowledge and Duck Creek expertise.

OA Intern

Foundit, Noida. Feb, 2021 – Jul, 2021

- Reported one of the biggest bugs on the v4 recruiter website that created multiple search keywords while omitting a single word.
- Presented a Weekly Report to the top management, showcasing the improvement in the latest website (v4) as compared to the **previous versions** (v3 and v2).

ML Intern

Univo Education Private Limited, Noida.

Feb, 2020 -Sep, 2020

Deployed several Logistic Regression models on Moodle Platform, used to predict the students at risk of dropping out and/or failing an online course, hosted on the Amity Future Academy, with an Accuracy and Precision of over 92%.

PROJECTS

URL Shortener

- Shortens a user-given URL which is stored in a database and can be later used to redirect to the original website.
- Deployed a model which would predict the probability, with 84.3% precision, the likability of the user visiting the website using the Data extracted from the given URL.
- **GitHub:** https://github.com/Dhruv-Chandra/URL-Shortener.

Facial Emotion Detection

Nov. 2023 - Feb. 2024

- Implemented a Deep CNN (Convolutional Neural Network) model that is able to predict facial emotions with a 76% accuracy and over 79% precision.
- Python script using OpenCV is also used to predict Real-Time Facial Expressions using device camera and the model mentioned above.
- **GitHub**: https://github.com/Dhruv-Chandra/Face-Emotion-Detection.

Big Mart Sales Sep, 2023 - Nov, 2023

- Created Random Forest, XGBoost and a Bagging Regressor that used the aforementioned models acquiring an 83% Explainable Variance (Adjusted R²).
- Cleaned and Applied Feature Engineering and Computed Feature Importance of the data using Random Forest Regressor reducing the relevant data from 16 columns to a mere 4 columns.
- Implemented RandomizedSearchCV as a Hyperparameter Tuning technique to evaluate the best combination of Hyperparameters.
- GitHub: https://github.com/Dhruv-Chandra/Big-Mart-Sales.

Covid-19 Analysis

Aug, 2023 – Sep, 2023

- Analyzed the medical history of around 10,48,575 people classifying their Covid Severity in 4 levels -High, Medium, Low and No Covid.
- Implemented an extensive **Bivariate and Univariate Analysis** to identify patterns among different features resulting in reduction of almost 86% of the Null values.
- Rectified the huge data imbalance using SMOTE Over Sampling, hence adding an additional 7,98,353 data
- Acquired a 70% Accuracy using a Random Forest Classifier and after computing the Feature Importance of the features and using the 6 most important columns the Random Forest gave a 62% Accuracy, indicating that the columns ignored, although not significant individually, were Better together.
- GitHub: https://github.com/Dhruv-Chandra/Covid-19.

Heart Patients

Jul, 2023 – Aug, 2023 Cleaned and analyzed around 4k+ Data Points containing medical history of Heart Patients for early prognosis of cardiovascular diseases.

- Dataset contained around 1-1.5% Null Values with no recognizable pattern, hence dropped the Null data points.
- Trained and Compared multiple Classification models (Logistic Regression, Decision Tree, SVC) out of which KNN and Random Forest topped the charts with KNN acquiring over 90% accuracy with a precision and recall between 84-95% and Random Forest with 89% and the precision recall between 86-92%.
- Stacking Classifier trained on the above models worked even better with a 92% Accuracy and the precision and recall between 91-93%.
- GitHub: https://github.com/Dhruv-Chandra/Heart-Patients.

WORKSHOPS and CERTIFICATIONS

Deep Learning Workshop | UPES, Dehradun

July 2024

- Participated in an intensive 5-day workshop on Advanced Deep Learning, featuring sessions by esteemed faculties from IITs.
- Gained hands-on experience with cutting-edge technologies such as Autoencoders, Transfer Learning,
 Transformers, and Federated Learning.
- Achieved a 98% score in the final assessment.
- Certification: Deep Learning: From Foundations to Cutting-edge Techniques.

Accelerated Computing with Nvidia GPUs Workshop | NVIDIA

June 2024

- Completed a 6-day workshop focused on leveraging Nvidia GPUs for accelerated computing using the Numba compiler.
- Developed and optimized Deep Learning algorithms for faster processing compared to traditional CPUs.
- Maintained an average **score of 94%** across all daily assessments.
- Certifications:
 - o Fundamentals of Accelerated Computing with CUDA C/C++.
 - o Fundamentals of Accelerated Computing with CUDA Python.
 - o Fundamentals of Deep Learning using CUDA.
 - o Applications of AI for Predictive Maintenance.
 - o Building Transformer-Based Natural Language Processing Applications.

Azure Fundamentals (AZ - 900): Microsoft	Feb, 2022
Machine Learning on AWS: AWS	Sep, 2022
Data Science: Amity Future Academy	Apr, 2020
Deep Learning: Amity Future Academy	Apr, 2020

EDUCATION

Indian Institute of Technology (IIT), Gandhinagar, Gujarat

May, 2024 - Present

eMasters (Master's Degree - similar to M. Tech.) - Data Science for Decision Making.

Amity University, Noida, Uttar Pradesh

Jun, 2017 – Jul, 2021

B. Tech. (Bachelors of Technology) **Computer Science**, 7.22 CGPA.

(Electives: Machine Learning, Deep Learning, Computer Vision and AI).

D.A.V. Model School, Durgapur, West Bengal

Jun, 2015 – Mar, 2017

Computer + Mathematics, 84%.

D.A.V. Model School, Durgapur, West Bengal

Jun, 2013 – Mar, 2015

Computer + Mathematics, 8.8 CGPA.