DHRUV CHANDRA

Summer Analyst
New Delhi (Can relocate to **Hyderabad**), India | https://www.linkedin.com/in/dhruv--chandra/ |
8279347506 | dhruvchandra0401@gmail.com

SUMMARY

I am a **Software Engineer** with over **3 years of experience** in developing, testing, and deploying web applications using various technologies such as **.Net and C#**.
I have a **Bachelor's degree** in **Computer Science** and a **keen interest in Data Science**.
I have completed several projects in **Data Science**, which included **Data Analysis** and **Visualization** of **Huge Datasets**, applying **Machine Learning and Deep learning** to create predictive models and evaluating their performance, using tools such as **Python, Matplotlib, PySpark, Scikit-learn** and **TensorFlow**.
I am proficient in working with **Large** and **Complex Datasets**, B**uilding** and **Evaluating Predictive Models**, and **Presenting Insights**.
I am looking for an opportunity to leverage my **Software Engineering and Data Science skills** in a challenging and rewarding environment.

SKILLS

Programming: Python, SQL, MATLAB.
Data Analysis and Visualization: Data Engineering, Tableau, Big Data (PySpark).
Machine Learning and Analytics: Data Science, Regression**,** Classification, DL (ANN, CNN, LSTM), NLP.
Software Tools: AWS, EC2, Azure, SQL Server.

WORK EXPERIENCE

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** the **overall 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's** expertise.

QA 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 a **58% Explainable Variance (Adjusted R^2).**
- **Cleaned** and **Applied Feature Engineering** and **Computed Feature Importance** of the data using Random Forest Regressor object **reducing** the 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 values**.
- 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 and **Random Forest** with **89%.**
- **Stacking Classifier** trained on the above models worked even better with a **92% Accuracy**.
- **GitHub:** https://github.com/Dhruv-Chandra/Heart-Patients.

CERTIFICATIONS

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*
Fundamentals of Accelerated Computing with CUDA C/C++: NVIDIA *June, 2024*
Fundamentals of Accelerated Computing with CUDA Python: NVIDIA *June, 2024*
Fundamentals of Deep Learning using CUDA: NVIDIA *June, 2024*
Applications of AI for Predictive Maintenance: NVIDIA *June, 2024*
Building Transformer-Based Natural Language Processing Applications: NVIDIA *June, 2024*

EDUCATION

Indian Institute of Technology (IIT), Gandhinagar, Gujarat *May, 2024 - Present*
eMasters (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.