DHRUV CHANDRA

Data Scientist

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SKILLS

Programming: Python, SQL, Software Development, MATLAB, R, Automation.

Mathematics: Statistics - Hypothesis Testing.

Exploratory Data Analysis (EDA): Statistical Data Analysis, Data Cleaning/Preprocessing, Feature Extraction/Transformation, Dimensionality Reduction.

Data Visualization: Matplotlib, Seaborn, Tableau.

Machine Learning and Data Science: Model Optimization/Evaluation, Predictive Modeling, Computer Vision, Classification, Regression, Big Data - PySpark, Deep Learning, Natural Language Processing (NLP).

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

Deployment Tools: GitHub Actions, GitLab.

Frameworks: Streamlit, Flask, TensorFlow - Keras.

WORK EXPERIENCE

Gen AI Developer (Freelance)
mPass   *July, 2024 – Present*

- Deployed an **Automated** script that updates a blog every 10 days, with unique content, generated using **GPT-4**, within **5-6 seconds**, to **maintain SEO score** of **over 90%**.
- Regularly connected with stakeholders to understand the **business requirements,** and **advise financially efficient** approaches.

Software Engineer
Coforge, Noida.   *Sep, 2021 - Present*

- **Automatically** filling values and converting over **3,000 documents** into PDF **within 20 minutes**, saving 3-4 months of manual testing and **$1200 per year for Aspose**.
- **Developed XML parser** to display XML attributes in tabular format, **reducing memory usage** by **27%**, over the previous application.
- **Collaborated** with client and internal teams to **gather, analyze** and **define** business priorities, **resolving** around **386 major bugs,** honoring the SLA of 3-4 days, in **more than 93.6% instances**.

Graduate Engineer Trainee
Coforge, Noida.   *Jul, 2021 – Sep, 2021*

- **Ranked 3rd** at the bootcamp assessment evaluating **Python** and **SQL**.

QA Intern
Foundit, Noida.   *Feb, 2021 – Jul, 2021*

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

ML Intern (Summer Internship)
Univo Education Private Limited, Noida.   *Feb, 2020 - Sep, 2020*

- **Trained Logistic Regression** models, classifying the students at risk of **dropping out** and/or **failing an online course**, **deployed** one with an **Accuracy** and **Precision** of **over 92%.**

PROJECTS

BlogBotter   *June, 2024 – July, 2024*

- Architected **BlogBotter**, leveraging Python's **Streamlit** framework to develop an **AI Chatbot** that **generated unique blog** content and **improve the SEO**.
- **BlogBotter** can generate a **new blog within 15-16 seconds** and **optimize the SEO** within **19-23 seconds**, utilizing **lemmatized keywords** and **GPT-4 text generation.**
- **GitHub:** https://github.com/Dhruv-Chandra/BlogBotter.

Big Mart Sales   *Sep, 2023 – Nov, 2023*
- **Cleaned** and **Applied Feature Engineering reducing** the relevant data from **16 columns** to **4 columns**.
- **Created a Bagging Regressor** with an **83% Explainable Variance (Adjusted R^2).**
- 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 **Bivariate/Univariate Analysis**, **reducing 86%** of the **Null values.**
- Rectified data imbalance using **SMOTE**, adding an additional **7,98,353 data values**.
- Acquired **70% Accuracy** using **Decision Tree** and **precision-recall** ranging between **67-73%**.
- **GitHub**: https://github.com/Dhruv-Chandra/Covid-19.

WORKSHOPS and CERTIFICATIONS

Deep Learning Workshop | UPES, Dehradun   *July, 2024*
- Gained hands-on experience on **Autoencoders, Transfer Learning, Transformers** and **Federated Learning.**
- Scored **98%** in the final assessment.
- **Certification:** Deep Learning: From Foundations to Cutting-edge Techniques.

Accelerated Computing with Nvidia GPUs Workshop: NVIDIA   *June, 2024*
- **Implemented Deep Learning models** using Nvidia GPUs for **faster processing** compared to CPUs.
- Maintained an average score of **94%** across all assessments.
- **Certifications:**
  - Fundamentals of Accelerated Computing with CUDA C/C++.
  - Fundamentals of Accelerated Computing with CUDA Python.
  - Fundamentals of Deep Learning using CUDA.
  - Applications of AI for Predictive Maintenance.
  - Building Transformer-Based Natural Language Processing Applications.

Machine Learning on AWS: AWS   *Sep, 2022*

EDUCATION

Indian Institute of Technology (IIT), Gandhinagar, Gujarat.   *May, 2024 - Present*
eMasters Degree, **Data Science for Decision Making, 9.5 CPI**.

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**.