**Location** **:- Jaipur**

**Git/GitHub link:- https://github.com/23Aditya**

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**Name:- Aditya Verma**

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**Mathematical Skills**

* *Statistics:*
  + Probability Distributions (Binomial, Poisson, Normal, Standard Normal and Multivariate Normal)
  + Central Limit Theorem, Maximum Likelihood Estimation and Confidence Intervals
  + *Hypothesis Testing:* Single and paired sample z-test, t-test, ANNOVA, Pearson Correlation, Goodness of Fit
* *Linear Algebra:*
* Vectors, Matrices (Positive Definite, Covariance, PPMI and Hessian), Rank
* *Matrix factorization:* Singular Value (Rectangular) and Eigen Value (Square matrices) Decomposition
* *Numerical Optimization:*
  + *First order:* Gradient descent, Momentum based, Adagrad, RMS, Hybrid RMS prop, Adam, and Rectified Adam
  + *Second order gradient-based optimization:* Newton’s method, L-BFGS
* *Machine Learning:*
  + *Supervised:* Regression, Naïve Bayes, Classification, SVMs, Decision Tree based approaches
  + *Unsupervised:* PCA, K-NN, Locality Sensitive Hashing, Soft Clustering, Latent Dirichlet Allocation, TF-IDF and Word Vectors

**Technical Skills**

* *Languages: - Python*
* *Frameworks/Libraries: -* NumPy, Pandas, Dask, Pyspark, Scikit-learn, NLTK, Spacy,etc.
* *Software Used: -* Tableau,Jupyter, Tinker cad, Atom, etc.
* *Other: - Git*/GitHub, Regular Expressions, AWS.

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**Work Experience**

* *Axis India Machine Learning (Machine Learning Trainee):*  *October 2021 – December 2021*
  + Learned Machine Learning and Deep Learning concepts from behind the scenes.
  + Implemented several Machine Learning and Deep Learning algorithms in python without using high level abstraction

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***Projects***

* [*Chi Square Goodness of Fit Test:*](https://github.com/23Aditya/Chi-Square-Goodness-of-Fit-Test)  *December2021*
  + *Implementing the* [*Chi Square Goodness of Fit Test*](https://github.com/23Aditya/Chi-Square-Goodness-of-Fit-Test) *from scratch.*
  + *Skills/Libraries used: Pandas, and Object-Oriented Programming in Python.*
* *Air Pressure System Failures in Scania Trucks:*   *December2021*
  + *The dataset consists of data collected from heavy Scania trucks in everyday usage.*
  + *Skills/Libraries used: TF-IDF, NLTK, Regular Expressions, Logistic Regression, PCA*
* *Amazon fine foods review classification:*  *December2021*
* *Performed rating classification of a food review on the amazon fine food review dataset having nearly 6,00,000 food reviews*
* *Skills/Libraries used: Word Vectors, NLTK, Regular Expressions, PCA, Dask, AWS*
* *Spam or not Spam Email December2021*
* *E-mail spam and non-spam filtering from scratch*
* *Skills/Libraries used: TF-IDF, NLTK, Regular Expressions, PCA*
* *Project:*
  + *Point 1*
  + *Skills/Libraries used:*

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**Education**

* Axis India Machine Learning(Diploma,ML) *October 2021 – December 2021*
* Chandigarh University, Mohali (Post Graduation, MCA) *August 2019 – August 2021*
* JECRC University, Jaipur (Graduation, BCA)   *June 2016– June 2019*
* K.V no. 3 Jaipur, CBSE (Senior Secondary)  *April 2015 – March 2016*
* K.V no. 3 Jaipur, CBSE (Secondary)  *April 2013 – March 2014*