

## TECHNICAL SKILLS

**Technology:** MYSQL, Power BI, Tableau, Trello, Jira, Visual Studio, Water Fall / Agile Methodologies

**Languages:** Python, JavaScript, React JS, jQuery, Java, C#, C, C++

**Data Science:** Data Modeling, Data Visualization, Business Intelligence, Statistical Analysis, Advanced Microsoft Excel

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## EDUCATION

**Texas Tech University | Lubbock, Texas**

Aug 2021 – May 2023

Master's in Computer Science

GPA: 3.88

- *Coursework:* Machine Learning, Algorithms, Data Structures, Operating Systems, Web Development
  - *Publications:* Akchurin, N., et al. "Deep Learning Applications for Quality Control in Particle Detector Construction." ArXiv.org, 16 Mar. 2022, <https://doi.org/10.48550/arXiv.2203.08969>.
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## EXPERIENCE

**Advanced Particle Detector Laboratory, Texas Tech University | Lubbock, Texas**

**Data Engineer / Data Analyst**

October 2021 – Present

- Builds a Web Interface using Python and Flask to digitize the process of Quality Assurance Testing on Silicon Sensors
- Implements the Yolov5 Object Detection algorithm to determine the location of anomalies in the silicon sensor images
- Develops Machine Learning Models that detect anomaly 97% of time while generating silicon images
- Uses MySQL, Python and MS Excel for data cleaning and filtering
- Contributes to building a dataset of silicon sensor images and speeding up Quality Assurance Automation process by 15%
- Certified in : The Ultimate MySQL Bootcamp: Go from SQL Beginner to Expert and Python – Introduction to Data Science and Machine Learning

**Grow By Data | Kathmandu, Nepal**

**Data Analyst**

September 2019 – July 2021

- Developed a Python script using selenium and pandas library that generates daily excel reports for clients purchase by scraping information from suppliers invoice saving clients 45 minutes per report
  - Implemented SQL scripts to generate clients custom sales reports that provided insights to increase client sales by 5%
  - Supervised 7 Junior Data Analysts regarding Data Collection, Data Cleaning and Data Visualization
  - Automated product upload procedure on clients Shopify stores using Selenium in Python reducing total upload time by 25%
  - Built a dashboard in Tableau which eventually helped the client to make a better plan to improve sales and profit
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## PROJECTS

**Animal Classification and Detection | Python | [GitHub](#)**

- Created web interface using Python and Django to allow users to upload images and view results for animal classification and detection
- Achieved 96% accuracy with implementation of Yolov5 to determine location of the animals in images
- Performed Transfer Learning with MobilenetV2 to create multilabel classification model for animals classification with 98% accuracy
- Filtered collected data and images using Python pandas and matplotlib libraries
- Developed a Python script to download animal images from various sites (Google, Pixabay, Unsplash) for building images dataset

**Phishing Website Detection by Machine Learning | Python | [GitHub](#)**

- Developed the software on Jupyter Notebook IDE that classifies websites as phishing or non-phishing
- Implemented Decision Tree, Random Forest and K-Means Clustering machine learning models in Python to train dataset and compare the model's performance on test dataset
- Extracted Address Bar, Domain and HTML & Javascript based features from websites to create test dataset
- Used Random Forest on test dataset achieving 92% precision and 94% recall

## **Money Laundering Detection | Python, React JS**

- Created Machine Learning Model to take the data from static rule based ALM systems and classify them as Fraud or Not Fraud
- Used Pandas to perform data cleaning and data analysis on the PaySim Data available from Kaggle
- Implemented 7 machine learning models on the dataset and compared their performance
- Developed the interactive web Interface using HTML/CSS and React allowing users for uploading CSV files
- Implemented Chart JS on the frontend for visualization of plots