Chandrakanth Kunta

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EDUCATION

Bachelor of Technology in Computer Science
DRK Institute of Science and Technology
05/2023 | Hyderabad, India

SKILLS

Python (Python: Anaconda, Jupyter Notebook, Colab Notebook, syntax. Identifiers & Operators, Array, Numpy, Data Manipulation, Pandas)

Machine Learning (Supervised, Unsupervised, ML. Algorithms, Validation Methods, Naive Bayes, Linear Algchra, K-NN, Hyperparameters, Dimensionality, Decision Tree, Linear regression, Evaluation Metrics, Regression Techniques, Q-Q Plot, MSE & RMSE, Polynomial regression. Regularization Techniques, Logistic Regression, Hierarchical Clusteting.)

Ms-SQL - Power BI (MYSQL, NoSQL, CRUD operation, RDBMS, Data Exploration and Data Filtering, DQL and Operators, Clauses, Joins, ACID, COMMIT, ROLLBACK.)

Power BI (Power BI workflow, Visualisation. Trend Data viz, Power Queries, Power Pivot, DAX, DA Expression, Web & RLS, Visual Interactions, Drill Through,)

Advance Statistics (Descriptive Statistics, Probability Distribation, Data Gathering | Techniques, Inferential Statistics.)

Excel ((including advanced functions), **PivotTables**, **VLOOKUP**, **INDEX-MATCH**, **SUMIF**, **COUNTIF**, **Conditional Formatting**, **Data Validation**, **What-If Analysis** (Goal Seek, Scenario Manager), **Charts and Graphs**, **Power Query**, **Power Pivot**, **Macros**, **VBA**, **Data Analysis Toolpak**, **Text Functions**, **Date and Time Functions**, **Slicers**, **Timelines**)

COURSES

Data Science
Innomatics Research Labs
10/2023 – present | Hyderabad, India

PROFESSIONAL EXPERIENCE

Data Science Intern
01/2024 – 03/2024 | Hyderabad, India

Roles and Responsibilities:

- Led initiatives resulting in a **60%** improvement in real-time data processing efficiency, utilizing **Python, Pandas (60%)** and **NumPy (30%).**
- Created custom **Pandas** functions that improved data aggregation processes, allowing analysts to extract insights from datasets **50%** faster
- Devised innovative visualization dashboards with **Seaborn** and **Matplotlib** that provided actionable insights on user behavior.

PROJECTS

Customer Churn Prediction
Tools & Technologies: Python, Scikit-learn, TensorFlow, Keras, Pandas, NumPy, Matplotlib, Seaborn

- Achieved **80% accuracy** in predicting customer churn using demographics, usage patterns, billing history, and service interactions.
- Created advanced algorithms for handling missing values and feature transformation, leading to a streamlined data preparation process; enhanced data quality and consistency.
- Evaluated models and recommended the **Logistic Regressor** for best performance.

Amazon-Sentimental-Analysis
Tools & Technologies: Python, NLTK, Scikit-learn, TensorFlow, Keras, Pandas, NumPy, Matplotlib, Seaborn

- Developed a systematic approach to text preprocessing, ensuring the integration of **cleaning**, **tokenization**, and **lemmatization**, resulting in a streamlined data preparation process that improved analysis turnaround time by 40%.
- Designed and implemented a multi-faceted approach for text data processing that combined **TF-IDF** and **word embeddings**; the resultant sentiment prediction tool is now employed by over 15 analysts for real-time customer insights.
- Our models demonstrated excellent performance metrics, such as **accuracy** and **F1-score**, enabling accurate sentiment predictions on new, unseen reviews, thereby providing valuable insights for data-driven decision-making.

MNIST Digit Classification Project
Tools & Technologies: Python, TensorFlow, Keras, NumPy, Matplotlib, Pandas, Scikit-learn

- Developed a digit classification model using the MNIST dataset with 70,000 images of handwritten digits.
- Designed and implemented a Convolutional Neural Network (CNN) to enhance image feature extraction, leading to **98.3% accuracy** on the test set.
- Tuned hyperparameters such as learning rate, batch size, number of epochs, and CNN depth for optimal accuracy.

Stock Market Fundamental Analysis
Tools & Technologies: Python, Pandas, NumPy, Matplotlib, Seaborn

- Designed and deployed a **Beautiful Soup**-based solution for web scraping on the **Grow App platform**, resulting in the collection of 100+ unique datasets weekly, which improved research capabilities for financial analysis.
- Extracted and processed (4000 rows across 8 columns), demonstrating proficiency in data extraction and manipulation.

- Conducted thorough exploratory analysis on all columns, uncovering key insights vital for informed decision-making in stock market investment strategies.