K PAVAN KUMAR

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Contact: +91-8019620741

OBJECTIVE

An Urge to work in an organization to efficiently leverage my skills gained through my experience and learning for better decision-making support for driving business growth

PROFILE SUMMARY

- About **4+ Years** of experience in **Data Science/Python Programming.**
- **Google Cloud** Certified Professional **Data Engineer.**
- Currently working with **GSPANN Technologies Pvt Ltd.** as **Jr. Data Scientist** in Hyderabad.
- Pursued **DATA SCIENCE SPECALIZATION** from **JIGSAWACADEMY.**
- Pursuing **BIG DATA SPECALIZATION** certificate program from **JIGSAWACADEMY.**
- Experience in **Python Programming, Machine Learning, Statistics, Regression-Linear, Logistic**
- **Tool and Techniques worked on**: Supervised and Unsupervised classification (Naïve Bayes, Support Vector Machines, Random Forest etc.), Regression.
- **Interest Areas**-Mathematics, Programming, Automation, Business Analytics, Data science, Statistical Modelling, Predictive Modelling, Text Mining, Machine Learning.

QUANTITATIVE SKILLS

• Logical and Analytical abilities	• Problem Solving skills
• Leadership	• Willingness to learn new things and apply
• Domain Knowledge: Manufacturing/Retail.	• Self-Starter and taking initiatives in building my own skills

ANALYTICAL SKILLS

• Statistics and Predictive Modelling- Linear and Logistic Regression, Hypothesis Testing, ANOVA.	• Machine Learning- Supervised and Unsupervised Learning • NLP
• Data Visualization- Matplotlib, Seaborn, ggplot2(R)	• Deep Learning (Keras)

TOOLS

• Python- Anaconda, Pandas, Scikit- Learn, NumPy, pyspark, selenium, Keras • Version Control System (Git & GitHub) • HTML, MS Office. • Robotics Process Automation (UiPath)	• Packages used- dplyr, ggplot, tm etc. • R Project, R studio- R for Data mining and Analysis • Tableau

EDUCATION

Degree/Course	Institute/University	Year	Percentage
Data Science Specialization	Jigsaw Academy	2016-2017	-
B. Tech (Electrical & Electronics)	JNTUK, Kakinada	2012-2016	82.07%
12th	Sri Gayathri Jr College	2010-2012	93.40%
10th	G.C.S. S Jr College	2009-2010	93.00%

CERTIFICATIONS

- Certified as **Google Cloud Professional Data Engineer** from **Google.**
- Certified as **Advanced RPA Developer** from **UiPath.**
- Certificate course from **JIGSAW ACADEMY** on **DATA SCIENCE.**
- Pursuing **BIG DATA SPECALIZATION** from **JIGSAW Academy**.
- Pursuing **Deep Learning Specialization** from **Coursera**.
- Completed Certificate course from UDEMY on **PYTHON BOOTCAMP and Pyspark**
- Completed Certificate course from UDEMY on **Complete MySQL for Data Science.**

PROFESSIONAL EXPERIENCE

GSPANN TECHNOLOGIES **Software Engineer - Data Scientist** **Jun-2017 to till date.**

Project: **Strategically Determine Surged Price Pattern via Predictive Data Analytics**

Client: **Lam Research Corporation, USA**

- Optimized manufacturing cost reduce complexity and enable strategic decision making with the data-driven predictive analytics.
- By solving business problem through the combined power of Data Science and Machine Learning techniques. We analyzed the behavior of each supplier, as the price surge / extra fees was incrementing year-over-year (YOY).
- Moreover, we trained the predictive model (developed in Azure ML Studio) on

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historical data of purchases for last three years, which consists of purchase order data, supplier features and historical transactions, product features etc.

- This real-time estimation helped the client in reducing the expedited delivery expenses.

Project: **Predicting Return Behaviour of Customer after Repurchase using ML Techniques**

Client: **Macy's INC, USA.**

- It has been observed that some customers are re-purchasing a merchandize (which they have purchased sometimes back with a higher price) with an "Intent to return the repurchased merchandize" to get a "price adjustment" against the "merchandize purchased earlier".
- The goal is to develop a solution that will offer a "proactive price adjustment" suggestion if the new transaction is a "Repurchase with an intent to return for price adjustment "pattern.
- For learning developed entire project workflow in Pyspark.

Tools/Techniques: R Language, Python, Pyspark, Jupyter Notebook (anaconda), Machine Learning Models (Classification)

Project: **Chatbot(B2C)**

Client: **Bluebird Inc**

- An automated response machine to instruct users to solve basics problems/incidents related to **Bluebird devices** by understanding contexts.
- **Benefits:**
  - This reduces (but not eliminates) dependence for incident resolutions, as well as can reduce number of services now tickets

Features:

  - Context Based responses
  - Text and Image Instructions for better understanding

- Sample user queries implemented:
  - Blue Bird has Physical Damage.
  - Blue Bird/How to Reboot
  - Blue Bird - Low Battery Symbol

Tools/Techniques: Slack API, Python, Flask, ngrok, Naive Bayes Algorithm

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Project: **Domain based NLP Chatbot for DevOps Operations**

Client: **Kohl's INC Ltd.**

- Worked as Developer to build a Rule-based & NLP based Multi-User Chat-bot for DevOps Team to reduce the internal manual work.

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- The client's technical support team needed to input commands multiple times for fetching similar information from the system.
- As a result, there was high mean time to resolution (MTTR). The client wanted to automate this process to improve productivity, better resource utilization, and quicker root-cause analysis.
- Reduction in time required for resolution and RCA (root cause analysis)
- The number of tickets raised by the client's support team for fetching information reduced by **40%**.
- Getting Dockers Logs, check health of applications, Restarting Dockers, IAM Authentication, creating incidents are some of the use cases implemented.

Tools/Techniques: Cisco WebEx API, Python, Flask, ngrok, Naive Bayes Algorithm, Tonomi API, Shell Scripting, JIRA API

Project: **Autobot**

- Developed NLP Based Autobot.
- Mimic ticket handling in production Environment.
- Based on incident raised by Support/Production Team, Classifying the Incident and fetches the required information from JIRA API.
- Assign the Detected Incident to corresponding person as per predefined Roles.
- Auto closing the issue as soon as assignee approves it.

Tools/Techniques: Cisco WebEx API, Python, Flask, ngrok, Naive Bayes Algorithm, Tonomi API, Shell Scripting, JIRA API, Cron Schedulers

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Project: **CR Inventory Management using Predictive Analytics Client: Charrles Routte**

- Performed EDA using HIVE Queries to gain valuable insights from available sales data.
- Forecasted Daily and weekly Sales to maintain the inventory stocks as per predictions.
- Finally, mapped the predicted inventory with weekly Forecasted sales.
- Implemented Workflow in Azure ML Studio.

Tools/Techniques: Python, Jupyter Notebook (Anaconda), HIVE, Tableau, Azure ML Studio

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Project: **Web Scrapping Using Python**

Client: Kohl's INC Ltd

Scrapping Live Data from Azkaban Job Scheduler

- Scrapped the live data generated through Big Data Map Reduce work via Azkaban Scheduler UI using python Selenium.

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- Generating Summary reports of all jobs running day from scrapped data.
- Sending mails automatically based on predefined frequency to clients using Windows Task Scheduler.

Tools/Techniques: Python, Beautiful Soup, Selenium, Jupyter Notebook, Windows Task Scheduler, SMTP

Monitoring the Recommendations of Shopping Website

- To monitor the performance to **Recommender system** for every **15** mins built on Technique.
- Scheduled script to get the displayed recommendation on a webpage from specific channel (Mobile, Tablet, Website) on hourly bases.
- Validating if recommendations are being served on website.
- Made Automatic mail delivery system through python to send the scrapped recommendations displayed on webpage to the client.

Tools/Techniques: Python, Beautiful Soup, Selenium, Jupyter Notebook, Windows Task Scheduler, SMTP

Project: **BEAT (Big Data and ETL Automation Tool)**:

Client: Nike

- Worked as Backend Python **Django/Pyspark** Developer
- Automating ETL Workflow validations by generating executable queries
- Fetching the Data from various RDBMS Systems or similar databases such as **Big Query (GCP), MySQL, SQL-SERVER, Amazon S3** using python connectors
- Profiling the data in various aspects as result to perform the Quality Check of the Data before and after ETL migration.
- Report generation by consolidating all QA outcomes.
- JIRA Integration to raise the bugs, defects from BEAT to track the issues.
- Transformed UI Design to Utilities as a python package which deployed across all prod clusters to validate larger volumes.
- Sending failure alerts to Slack Channel and Mails using SMTP and API's
- Created DAG's using Airflow to schedule the quality check in ETL Pipelines.

Tools/Techniques: Django Rest Framework, Pandas, Pyspark, Apache Airflow, Jenkins, Git/Bitbucket, MySQL, Amazon S3, EMR, Cerberus Client, JIRA API, Confluence API, Slack API, SMTP

EXTRA CURRICULAR ACHEIVEMENTS

- 10th class school **Topper**.
- Received gold medal for achieving **100%** in Science in S.S.C
- Trained **50+** newly joined Fresher's as Internal **Python Trainer** in GSPANN
- Recognized as the best performer and received a **Shining Star Award** for the year **2019-2020** especially for building **NLP Chatbot.**

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PERSONAL DETAILS

Father's Name	:	K. Srinivasa Rao
Hobbies	:	Coding, Painting, listening to music, and Reading books.
Languages Known	:	English, Telugu.
LinkedIn profile	:	www.linkedin.com/in/pavan-kumar-a46b7897
Git-Hub	:	https://github.com/Pavvan-K
Website	:	https://analyticswithr.weebly.com
Medium	:	https://medium.com/@kpavankumar_19821
Address	:	Plot No: 301, Prasanth Nagar, Kondapur-500084.

DECLARATION

I do hereby the declared above information is true to the best of my knowledge and belief.

Place: Hyderabad,

Date: ----------

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