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 **4.5+ 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 • Postman (API Testing) • Flask & Django Rest Framework

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**

Role**: Data Scientist**

- 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).

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- Moreover, we trained the predictive model (developed in Azure ML Studio) on 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.

Tools/Techniques: R Language, Python, Pyspark, Jupyter Notebook (anaconda), Machine Learning Models (Regression), Random Forest, Azure ML Studio (Deployment)

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

Client: **Macy's INC, USA.**
Role**: Data Scientist**

- 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.
- 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

Role**: Data Analyst**

- 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.

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- Implemented Workflow in Azure ML Studio.

Tools/Techniques: Python, Jupyter Notebook (Anaconda), HIVE, Tableau, Azure HD Insight

Project: **Web Scrapping Using Python**

Client: Kohl's INC Ltd

Role: Python Developer

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.
- 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 properly being served on corresponding channels.
- 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 (B**ig Data and **E**TL **A**utomation **T**ool**)**: [WIP]

Client: Nike Inc Ltd.

Role: Sr. Big Data Engineer.

- Has been working 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 and triggering the alerts to Slack or Outlook.
- 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

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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** for building a **NLP based Domain Chatbot.**

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/pavvankanamarlapudi/pavvankanamarlapudi
Website	:	https://analyticswithr.weebly.com
Medium	:	https://medium.com/@kpavankumar_19821
Address	:	D. No:12/25/101, Beside Kotak Mahindra Bank, Above Venkataramana Eye Care, Kothapet, Main Road, Guntur (A.P)-522001.

DECLARATION

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

Place: Guntur,

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

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