Amit Kumar
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offering over 4.3 years of experience

Core Competencies

**Data Sciences
Python
SQL
Java
Machine Learning & AI
Deep Learning(keras,
tensorflow and Pytorch)
Different Python Libraries and
DataScience Tools
Project Execution and Support**

- **Strong business acumen in** data and information strategy definition aligned with overall organization's plan and package evaluation.

- **Proficient in delivering** actionable insights to the various stakeholders in the business using various statistical methodologies (clustering, forecasting, causal inference, machine learning); automating processes and analyzing using dashboards.

- Leveraged **machine learning algorithms** and applied statistics with visualization & strong sense of data exploration.

- Deployed suitable analysis tools to attain the **competitive edge** on the market; provided **insights on trends**, analysis, opportunities, projections and **data science strategies**.

- Enhanced data collection procedures to include information that is relevant for building **analytic systems** along with **processing, cleansing** and verifying the integrity of data used for analysis.

- Successfully engaged in identification of the **business and client** problem by re- framing the problem definition and narrowing down the **scope of analysis.**

- Experienced in building **Artificial Intelligence applications with Machine Learning, Deep Learning with Python . Deep Learning Techniques include ANN, CNN, RNN and Natural Language Processing.**

- **Team-based working style** coupled with exceptional analytical & logical approach and **communication skills.**

Certifications:
- Certified in Machine Learning, Deep Learning and Natural Language Processing from Ineuron.ai
- Certified in Statistics from Ineuron.ai.
- Certified in feature-engineering process from in machine learning from Udemy.
- Certified in sql language in Oracle database from Udemy.

IT Skills:
- **Languages:** Python, Machine Learning, Deep Learning, Natural Language Processing, Sklearn Libraries, Java, SQL, Windows PowerShell.
- **Database:** SQL Server, Oracle, PostgreSQL .
- **Platform:** Windows, Mac-os.
- **Tools & Technologies:** Anaconda Distribution, Sublime Text, Pycharm, Jupiter Notebook, Eclipse.
- Additional Skills of Core Java, Spring mvc, Spring Boot, hibernate and JDBC.
- CNN architectures like **LeNet-5, AlexNet, VGG16, VGG19, ResNET-50.**

Professional Experience
- Worked as Software Engineer at **Sasken Technology limited** from April 2017-October2020
- Working as Associate Technical Engineer with **SISA Information Security Pvt. Ltd.** from October 2020- present.

Key Result Areas:

- Providing data & technical support for projects & programs for clients in life sciences & cyber security domain covering Data Science, Data Quality, Big Data, AWS, Data Science, Data Governance, Reporting and Visualization)Provided insightful knowledge of business process analysis ans design.

- Applying Exploratory Data Analysis before processing, cleansing and verifying the integrity of data used for analysis

- Devising and implementing:

    o Data-driven strategies to enhance growth including revenue and profits.

    o Statistical / Predictive Models and Machine Learning Algorithms utilizing diverse sources of data.

- Coordinating with stakeholders to identify opportunities for leveraging company data and using predictive modeling to increase & optimize customer experiences, revenue generation & other business outcomes.

- Developing software solutions by studying information needs, conferring with users, studying system flows, data usage and work process; providing insightful knowledge of business process analysis and design.

- Managing application based process re-engineering and process optimisation.

- Mentoring sophisticated organizations on large scale data & analytics using advanced statistical & machine learning models.

- Developing audience extension models relying on decision trees, random forest, logistic regression, neural networks and other categorical data.

- Conducting Root Cause and Trend Analysis on negative impacts to system resources to help establish and maintain Service Level Agreements and increase corporate revenue.

- Designing prediction algorithm using advanced data mining algorithms to classify similar properties together for developing sub-markets; performing cleaning of data which includes understanding & removing unnecessary & repetitive data .

- Maintaining healthy business relations with clients, ensuring high customer satisfaction matrices by achieving delivery & service quality norms.

Projects Undertaken:

1. Title: Named Entity Extraction for Personal Identity Information(PII) data.
Client: SISA Information Security.
Team Size: 4 members
Tools & Technology: Python, Natural Language Processing, NLTK library, Named Entity Recognition, CRF classifier, Pycharm.
Datasets: PII data(name, geographic location, others entity, and more) scanned by the Radar tool.
Role: Data Collection, Feature Engineering,Model Creation,Model Hyper- parameter Tuning, Model Deployment.
Description: Reduced the false positives to 94% encountered by the customer after the scan of PII data by the Radar tool. The elimination of false positives data need manual efforts of the customer success team which is reduced by the machine learning model.

2. Title: Masking credit card numbers on Image .
Client: SISA Information Security.
Team Size: 4 members
Tools & Technology: Python, SSD Mobilenet (Object Detection) model, Tensorflow 1.15, Google-Colab, Tesla-T4 GPU .
Datasets: Credit card images of major six types (VISA, DinersClub, AMEX, MasterCard, Maestro, JCB).
Role: Data Collection, Feature Engineering, Model Creation, Model Deployment.
Description: Masked the 16 digits credit card or debit card numbers on image with the confidence range between 80%-95% which allow the customer to fulfil the requirements of PCI DSS.

3. Title: False Positive Reduction in PCI Data
Client: SISA Information Security
Team Size: 4 members
Tools & Technology: Python, Natural Language Processing, NLTK library, Logistic Regression, Pycharm.
Datasets: Various card data keywords and card brand keywords.
Role: Data Collection, Feature Engineering, Model Creation,Model Hyper- parameter Tuning, Model Deployment.
Description: Reduced the false positives in the PCI data scanning to 95% which encountered by the customer after the scan of PCI data by the Radar tool. The elimination of false positives data need manual efforts of the customer success team which is reduced by the machine learning model.

4.Title: Forecasting the Usage Pattern of Subscriber for Telecom.
Client: Lebara Mobile UK.
Team Size: 3 members
Tools & Technology: Python, Seaborn and Matplotlib libraries for visualisation,RNN LSTM, Tensorflow, Pycharm.

Datasets: Subscriber CDR data, Bundle dimension data, Sim dimension data, Lebara Datalake.
Role: Data Collection, Feature Engineering, Feature Selection,Model Creation,Model Hyper- parameter Tuning, Model Deployment.
Duration: Mar 2019-Ongoing
Description: Forecasting the usage pattern of the subscriber on the sim card level which leads to optimise the wholesale bundle booking from the Lebara side which in turn reduce the cost of infrastructure and increase the revenue.

5.**Title: Telecom Customer Churn Analysis.**
Client: Lebara Mobile UK.
Team Size: 3 members
Tools & Technology: Python, Seaborn and Matplotlib libraries for visualisation,Machine Learning Sklearn Libraries, Pycharm.
Datasets: Subscriber CDR data, Bundle dimension data, Subscriber dimension data, Lebara Datalake.
Role: Data Collection, Feature Engineering, Feature Selection,Model Creation,Model Hyper- parameter Tuning, Model Deployment.
Duration: June 2018-Feb 2019
Description: Predict the likelihood of the customer who is about to churn which leads to higher customer acquisition cost and reduced revenue by looking at the historical usage data of several geographical location.

Education & Qualification:
2016: B.Tech in **Electronics and Communication Engineering** from Siliguri Institute of Technology.

Personal Details:
Date of Birth: 22/07/1994
Languages Known: Hindi and English.
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