Rajeshwar Sehdev

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EDUCATION

- **Guru Gobind Singh Indraprastha University** — Delhi, India
  Bachelors In Computer Application — *July 2013 – June 2016*

- **Coursework**
  Applied AI

OVERVIEW

- Passionate about solving real-world problems.
- Full understanding of **Data Science Lifecycle** :- Framing business problem , Data Acquisition , Data preparation, Modelling , Evaluation, Deployment, A/B Testing , Improvisation .
- Strong **PYTHON** programming skills.
- Excellent communication and presentation skills. Excited about working with customers and customer dataset.
- Framework or Libraries used: Tensorflow, PyTorch, Scikit Learn, pandas, numpy, matplotlib, SpaCy, HuggingFace.
- Modelling Techniques used: Logistic Regression, Linear Regression, Random Forest, Gradient Boosting Algorithm, Neural Networks(Shallow and Deep).
- Pretrained models used for **Computer Vision** and **Natural Language Processing** are VGG-16, ResNet50, BERT, DistillBert.
- Productionization and Deployment done using Spark, **FlaskAPIs on AWS**, **StreamLit**.
- Familiar with Docker, Git, Linux, AWS(S3), SPARK, Big data, API Development.
- Enjoy solving open-ended problems and polishing the solutions to a stage that is suitable for practical use.

EXPERIENCE

Total Experience : 4.6 years
Data Science : 3 years

- **Tata Consultancy Services** — India
  Data Scientist — *July 2017 - Present*

  - **Project : NLP based Ticket Classification model**:
    Client : Walgreens
    Built a project on automating classifying the IT support help-desk tickets to the right category of teams.
    * Workflow : Pulled 50000+ data from ServiceNow , pre-processed and cleaned the data through various techniques like NLTK's Wordnet, WordNetLemmatizer.
    * Used Topic Modelling(**LDA Gensim**) for Categorization. For training used **GRU , LSTM** for ticket classification.
    * Used standard evaluation metrics Accuracy, Precision, and F1 score.
    * To deploy the model we integrate AWS and ServiceNow for real-time predictions.
    * Tools and technologies used:**AWS Lambda** function,EC2 Instance,Python,**Neural Network** models LSTM.

  - **Project: Contextual AI chatbot (IRT InfoBot)**
    Client : Bayer
    * IRT InfoBot is an AI powered intelligent chatbot developed to aid support mechanism and provide help with FAQs and
    * Lower level operations like raising tickets, validating and checking status of certain transactions etc. cutting down operations cost.

- ∗ It was built using **PyTorch** frame work of python using training data from IRT project documents and past experiences.Collected
- ∗ data in database which comes under fall back and use it for model training later.
- ∗ Intent classifier to detect indent of user and for response Recurring neural network(LSTM) used.
- ∗ Built **chatbot** from scratch and integrate it with IRT webpage.
- ∗ Python, sql, PyTorch frame work, NLP, **RNN(LSTM)**, Docker/Git

- ○ **Project : Credit Card Risk Modelling :**
  Team : AI Research
  - ∗ Worked on Banking data of Credit Default Risk. Used various **EDA techniques** for analysis and detecting anomalies in data.
  - ∗ Used feature engineering , reprocessing ways for transformation of categorical data into numerical data type.
  - ∗ Used **pandas** for prepossessing, cleaning , concatenation of features and **matplotlib** for visualization and plots.
  - ∗ Built a baseline model using **Logistic Regression** , improvisation done by using **Random Forest** , LGBM.

- **Tata Consultancy Services**   India
  Robotics Process Automation   *Sep 2016 - July 2017*
  - ∗ Developed Bots using Automation Anywhere(RPA) , platform were - Mainframe, AS400, and Windows. Usecase solely related to : Batch Jobs, Monitoring tasks, Failures reported, daily clean up tasks, L1 tickets , transferring and assigning of incidents , generating reports , storing the data in Database.
  - ∗ Tools used: Automation Anywhere (RPA), BMC, JIRA, Python, PostgreSQL.