SIDDHANTA BHATTA

Gachibowli, Hyderabad - INDIA
Contact No: 9078782763
Email ID: siddhantaofficial@gmail.com

SUMMARY

An experienced machine learning engineer with 4.4 years of experience using statistical modeling, natural language processing, deep learning algorithms to solve challenging business problems. Passionate about building full stack machine learning solutions, deep reinforcement learning, and dimensionality reduction techniques.

EXPERIENCE

Dec 2017 – Current   **Technology Analyst, Machine Learning**   *Infosys Ltd.*

- Work with Product Managers and Business Consultants to frame a problem, both mathematically and within the business context.
- Work with Technical Architects and Team Leads for end-to-end solution creation, that includes architecture design, technology/algorithm selection.
- Do research on algorithms, develop prototypes and validate the results.
- Create back-end APIs for consuming the Machine Learning Models.
    - Creation of prediction API using python Flask web framework
    - Working with database and implement business rule engines
- Knowledge of one or more open-source Machine Learning Framework.
- Knowledge of developing and debugging in Python.
- Proficient in Machine Learning Algorithms

    - Predictive models e.g. Linear Regression, Logistic Regression, Naive Bayes, Decision Trees and Random Forests, SVM, k-NN, XGBOOST, etc.
    - Recommendation systems e.g. Content-based, Collaborative Filtering and latent factor based models, etc.
    - Dimensionality Reduction using PCA, t-SNE, etc.
    - Clustering and anomaly detection algorithms e.g. k-Means, Hierarchical Clustering, Isolation Forest, one-class SVM, etc.
    - Deep Learning Algorithms e.g. Convolutional Neural Networks, RNN/LSTM, Auto-Encoders, GANs, etc.

Below are a few solutions developed,

- **Customer Identity Data Lockbox:** Identify and mask customer sensitive data from chat for the secure transmission of data to the cloud.
- **Intelligent Kbyte:** Recommend Knowledge bytes to employees based on their read history to enhance the reading experience.
- **Article Recommendation:** Recommend similar articles based on similar topics using Latent Dirichlet Allocation algorithm.
- **Attrition Prediction:** Predict employee attrition rate using historical employee records e.g. salary, hikes, daily survey sentiment, etc. to devise a recruitment plan with prediction algorithms e.g. random forests, boosting, etc.
- **Intelligent Customer Service:** Automate the process of email to case creation, allow voice complaints. Other features include automatically assign owners to cases, Next Best Action for case resolution.
- **Automated Claim Processing:** Automate the process of vehicle damage claim assessment by using IoT drone to navigate and collect the image, process the image using CNN models and create incidents/claim cases in Microsoft D365 CRM.
- **Resume Scanner:** Automate the process of resume processing and keyword extraction from resumes. Filtering resumes based on score.
- **Automatic Order Processing:** Using scanned invoice/orders images create order automatically in CRM.
- **Vehicle Counter:** Count the number of vehicles and their types(cars, trucks, etc.) using object detection algorithm.

Aug 2015 – Dec 2017   **Senior Systems Engineer, Machine Learning**   *Infosys Ltd.*

- Work with team lead and clients to collect data from various sources using DB2 SQL and excel reports.
- Create visualizations and show inference(by doing Exploratory Data Analysis).
- Create machine learning models to predict plan sales.
- Participate in daily meetings to present findings and discuss future steps.
- Knowledge of one or more open-source Machine Learning Framework.
- Knowledge of developing and debugging in Python/R.
- Generate visualizations using Tableau and R ggplot2 package.

EDUCATION

- B.Tech in **Electronics and Telecommunication Engineering** (2015) from in Silicon Institute of Technology (Bhubaneswar) with CGPA **8.72/10**.
- Higher Secondary Education with College of Basic Science and Humanities(2010) from Secondary board with **77%**.
- Senior Secondary Education from School of Integral Education (2008) from B.S.E with **91%**

SKILLS

- **Languages:**
  - Python(Proficient) – 4 years
  - R(Beginner) – 2 years
- **Tools:** VS code, Jupyter Notebooks, Python(Pandas, Numpy, Scikit-learn, Spacy, Tensorflow, Keras, Pytorch, Fastai)
- **Database:**
  - SQL – 2 years
  - MongoDB – 2 months
- **Web Technology:**
  - Backend – Python Flask
  - ORM – Flask_SQLAlchemy
  - Frontend(Beginner) – JavaScript, HTML, CSS
- **Operating Systems:** Windows and Ubuntu
- **Other Skills:**
  - Machine Learning – 4 years
  - Statistical Modeling – 4 years
  - Natural Language Processing – 2 years
  - Deep Learning – 2 years
  - Algorithms – 2 years

AWARDS & RECOGNITION

- DC Level Top Performer Award
- 3 Times INSTA Award winner
- AETNA Rising star award

CERTIFICATIONS & COURSES
- A-Z Machine Learning UDEMY
- Microsoft certified cloud Data Scientist
- Machine Learning/Deep Learning by Andrew NG Udacity
- Descriptive and Inferential Statistics by Udacity
- Fast.ai courses on Deep Learning 1 & 2 by Jeremy Howard