

Ganesh Kharad

Machine Learning Engineer

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Summary

Data Science professional with 3.9+ years of experience. executing data-driven solutions to increase accuracy, efficiency and utility of internal data processing, Experienced with Full-Stack development in natural language processing models, Deep Learning, ensemble techniques, time series using predictive data modelling and analyzing data using different tools to deliver insights and Design & Built solutions to complex business problems along with hands-on cloud technologies. Managerial & Technical skills, professional with an MBA in IT & Expertise in Data Science, Machine Learning.

Experience



Machine Learning Engineer

Jun 2020 – Present

Searce Inc, Pune

- Successfully Delivered Fast pace Big data Deliverables ML Solutions along with model Explainability with Ensemble Techniques like XGB, RF for Use Cases like Churn Prediction, Recommendation system, Potential Customer Sampling with respect to business and the platform Rules & Events generated from Mixpanel.
- Interacting with foreign Clients on a daily basis. Knows what questions to ask wrt Data, Problem Statements, cross-validating the understanding and Presenting Development progress to the technical team as well as Business Stakeholders with high-level Language.
- Efficiently Managed EDA, Feature Engineering, training, Deployment to Production of Multiple Big Data Problem statements with the power of GCP like BigQuery, Dataflow, Apache Beam for ETL 4 Billion Rows, 500 GB of Data, AI platform for Fine Tuning the model over time, Google Cloud Composer (Airflow) to orchestrate Entire Flow.
- Delivered Hierarchical Forecast for the client who is in the business of fertilizers, pesticides and speciality nutrients by the category, brand, Store hierarchy by utilizing the power of AWS Redshift, Sagemaker, EC2 & lambda functions.
- Transcription of voice call interaction between client & customer with google API and used that transcription to train on BERT multilingual language model (Hinglish) by creating synthetic labelled data.
- Contributed the Multilingual Model for Hinglish to the open-source community.
- Identified profanity, Empathy word detection in the conversation to rate the performance of the agent.
- Created End-to-End document Data parsing project using state of the art ML architectures like flair, spacy, BERT utilizing its different embedding to best fit the model with the use case.
- Created the entire project's models Retraining mechanism and implemented it along with the trigger on the API.
- Maintained Entire project development, design, deployment, Architecture.
- Managed all project requirements like IAM, VM, Storage on GCP.
- Built & Deployed A chatbot with Dialog Flow to be compatible with the Google Assistant to provide information about different specializations that the client is providing.
- Interactive and capable of accepting multiple ways of inputs from the user like touch, voice, carousel cards.



Data Scientist

Dec 2018–May 2020

Exela Technologies, Pune

- Worked on text summarization on legal documents using customized legal domain embedding along with Binary classifier.
- Implemented algorithms like Text Rank, ARIMA, Auto-ARIMA, NER, KNN, for in-house projects.
- Demonstrated Experience in hyperparameter tuning & optimization, hypothesis testing, Error minimization.
- Created a KYC backend Platform for US Financial service provider by extracting unstructured data from different sources & organize them in a structured manner.
- Induced intelligent mail routing by fuzzy logic & TF-IDF with MongoDB.
- Successfully deployed multiple projects, Created Web services with Flask.
- Hands-on cloud technologies like AWS, Docker and Kubernetes Deployment.
- Developed a Generic captcha breaker with CNN Transfer Learning for Scraping Data from Websites for Data Modeling.
- Rule-Based Field Extraction model from Unstructured Data like Contracts, Bills along with State of the art deep learning algorithms to Fetch person or organization Details.

Internship



Machine Learning Engineer

Jul 2018 – Dec 2018

AIS Solutions Pvt Ltd, Pune

- With NLP, Created a Textual data analysis system by creating word Cloud, BoW, sentiment Analysis.
- Developed Computer Vision product with OpenCV.
- Data Crawling With Selenium Webdriver, BeautifulSoup.
- Automated Repetitive UI task With PyautoGUI.
- Built UI Integrated with HTML & Flask API to create web services which accept query and visualize the insights on the collected data.



Data Scientist-Dissertation

Jan 2018 – Jun 2018

Defour Analytics Pvt Ltd, Pune

- Effectively Analyzed the data by adapting the domain knowledge with in-depth study variables given in the data for a given business.
- Creating dependent & independent variables with given Raw business data and performing Cleansing, Imputation, Transformation of data.
- Extracting and inspecting data for patterns & quality data.
- Built Dashboards Presenting Statistical models & Report generation with Tableau, Orange and python.
- Created API to get Insights on data on a Daily Basis.
- Utilized statistical outcomes for DSS (Decision Support System) to bring up new customer retention policies for Business.



Business Data Analyst-Summer Intern

May 2017 – Dec 2017

SoftHub technologies, Pune

- Implemented an Article Recommendation system as well as statistics for better customer engagement.

- Design, develop and maintain scaled, automated, user-friendly systems, reports, dashboards, etc. that will support client business needs for a PMS (Project Management System).
- Conveyed Client's thoughts and Concept to the Developers to Ensure Effective project development.
- Conduct product Demo, knowledge Transition for the client.
- Monitored Evaluation & Complete Development of projects.
- Ensured Final Product Tested & Delivered to the client by demonstrating the final product.

Education



Matrix School of Management Studies, Pune University

2016 - 2018

Information Technology Management – (7.85 CGPA)



Trinity College, Pune University

2012 - 2016

Bachelor of Engineering (BE), Electronic and Communications Engineering – (62.64%)



Cusrow Wadia Institute of Technology, AICTE

2009 - 2012

Diploma, Electronics and Communications Engineering – (70.71%)



Skills

Python • Data Analysis • Machine Learning • Data Science • Keras • Tensorflow • sklearn • NLP • Flask • Docker • AWS • boto3 • GCP • API • AWS • boto3 • Tableau • Linux • Microsoft Excel • Deep Learning • Tableau • SQL • MongoDB • Selenium • Webdriver • VM • Airflow • Cloud Composer • AI Platform • Big Data • BigQuery • Apache Beam • Dataflow • ETL • Mixpanel • Sagemaker • Redshift • lambda

Certifications

[Neural Networks and Deep Learning \(Coursera\)](#)

[Machine Learning & AI Foundations: Recommendations](#)

[Financial Forecasting with Big Data](#)

[Stats for Data Science](#)

Profile Links

LinkedIn:- <https://www.linkedin.com/in/ganeshkharad/>

Github:- <https://github.com/ganeshkharad2>

Open-Source Contributions:-

- **HuggingFace:** <https://huggingface.co/ganeshkharad/gk-hinglish-sentiment>
- **Stack:** <https://stackoverflow.com/users/9514712/ganesh-kharad>