



CHANCHAL SAHU

Data Scientist

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KEY SKILLS

Machine Learning

Algorithms:

- Linear Regression
- Logistic Regression
- SVC
- K-means
- KNN
- Random Forest
- NLP

Programming Languages:

- Python
- SQL

Process:

- Agile

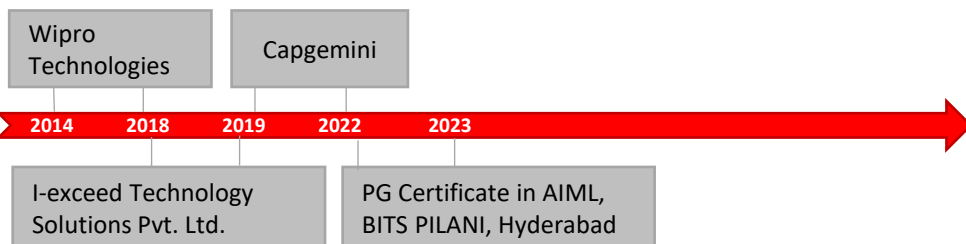
Github Repository Link:

- <https://github.com/chanchal-1001>

Certified AIML Engineer from BITS Pilani, Hyderabad with more than 2 years of hands-on experience in AIML and 7.8 years of expertise in designing, developing, and deploying RESTful Service.

Experienced in working on Supervised and Unsupervised real time data, where I've learned to perform EDA, Prediction, Classification, Feature Selection, Clustering.

Proficient understanding of how NLP, RNN, LSTM works.



WORK EXPERIENCE

BITS PILANI, HYDERABAD

Sep2022 – Aug2023

PG Certificate in Artificial Intelligence & Machine Learning (AIML)

Academic Projects:

- Life Expectancy Data
- House Price Prediction
- Human Activity
- Topic Modeling
- Sentiment Analysis
- Cancer Data Prediction

Capstone Project from BITS Pilani:

Developed a Privacy Preserving Machine Learning Model for Credit Risk Assessment for FinTech industry to predict Good or Bad Credit Risk.

- Encryption technique :
 - Cryptography with Hazmat Layer
- Model :
 - Implemented GAN model to generate synthetic data.
 - Binary Cross Entropy Loss function is used for classification with 0.33 loss.
- Outcomes:
 - In case of class imbalance issues, clients should be able to generate synthetic data which will improve overall training and prediction.
- Future Work And Scope Of Improvement :
 - The number of layers and nodes on the deep neural network be increased so as to improve the classification ability of the model.
 - More data added to the network will help to get better results.

Tech Stack Used: Python, Tensorflow, Flask

EDUCATION

2023 / PG Certificate

11 Months PG Certificate Programme in Artificial Intelligence & Machine Learning from BITS Pilani, Hyderabad

2014 / MCA

Shri Shankaracharya College of Engineering and Technologies, Bhilai, Chhattisgarh

2011 / BCA

Swami Swaroopanand Institute of Education, Bhilai, Chhattisgarh

2008 / HSC and 2006/ SSC

BSP Senior Secondary School, Bhilai, Chhattisgarh

Fidelity (On Capgemini Payroll)**Jun 2019 – Dec 2022****Senior Consultant**

Team 1 - As system was following Agile methodology, I was involved in all the sprint stages like story sizing, scrum meetings, retrospective and story closures. Integrated of SOAP/Rest services, and wrote functional and component tests for the same. Created Jenkins pipeline for functional test case to run. Involved in many APIs installation and validation process owned by the team. Created Splunk alerts for monitoring production log which runs on Cron scheduler. Worked on decommissioning WSO2 API and using LWC API on legacy application.

Team 2 - Played a crucial role in developing Fidelity's Data Acquisition & Analytics Framework (DAAF). Worked on automation for config file generation for vendors like Bloomberg, MorningStar, MSCI, S&P using python. Developed many REST APIs and core business functionalities to expose the HDFS data using Spring boot & deployed them to AWS EKS.

- Developed a scalable, serverless architecture for Auto Security Enrichment by extracting financial security data from an e-mail body using NLP-Spacy and LSTM deployed on AWS Lambda.

I-Exceed Technology Solutions Pvt. Ltd.**Sep 2018 – Apr 2019****Senior Project Engineer**

Appzillon Digital Banking: Integrated External XML Services for Axis Bank UK branch. Created Cron job Scheduler for Pooled Fund Transfer. Implementation of complete Customer Onboarding Micro app, including client and server-side validation.

Wipro Technologies**Oct 2014 –Aug2018****Project Engineer**

UserSights: Developed a dashboard replicating the features of Tableau. I was involved in Full stack development of the application like Logging In/Out, Mail services, Account verification through mail. Scrapped the data using BeautifulSoup from health care websites and performed Sentiment analysis on health care data. Deployed the application on Heroku for demonstration.

VoiceChatBot: Built the intelligence using AIML and Open.Ai online tool for query responses and exposed as an API. Responsible for full stack development of the chat. Implemented IBM Watson and Microsoft Cognitive services for cognitive aspect of the bot. Successfully demonstrated the bot in Wipro innovation center of India and US. This chatbot was also customized for collecting employees appraised feedback form and extracted employee's sentiments from the data.

Travel and Expense: Involved in requirement analysis, design and development. Integrated airline services like GoAir and Indigo and performed integration testing and fixing bugs. Implemented the mail service using Open Rule Engine and exposed APIs for the same. Implemented invoice document operations like generate, upload, download and transfer files from one server to another server to streamline their business processes.

PROJECT DRIVEN BY PERSONAL INTEREST

Created a chat bot named as where user can upload their files and use the chatbot to get their query answered from the document uploaded. The Chatbot is able to respond to queries like providing summary and specific details from the file.

Tech Stack Used: Python, LangChain, OpenAI, Tkinter

ACHIEVEMENTS

Received an award from Wipro Technologies for the project Newton for leveraging the technology to create a chatbot as Health Assistant.