

## SURABHI CHANCHAL

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### SUMMARY:

Currently pursuing Master's from Georgia State University in Computer Information Systems (Big Data Analytics). Motivated and highly organized professional with 4 years of experience in IT industry. Proven history of providing optimal results with innovative solutions to address fundamental business needs.

### EDUCATION:

#### **Georgia State University, Atlanta, GA**

*AUG 2023 – May 2024*

Master of Science in Information System. GPA – 3.7/4.0

#### **BPUT University, Bhubaneswar, India**

*AUG 2013 - May 2017*

Bachelor of Engineering in EEE. GPA – 3.5/4.0

### SKILLS:

**Language and Databases:** Python, Java, C++, HTML, CSS, JavaScript, SQL(MySQL), NoSQL(MongoDb, OrientDB)

**Tools & Platforms:** Linux, Windows, Android, Git, SonarQube, VMware, Pylint, GPU, JIRA, AWS, Shell, Jupyter, Rally

**Software Engineering:** SDLC, Load balancing, Cloud Deployment, CI/CD Pipeline, REST API, Microservices, ETL, Web scrapping, System design, DevOps, MLOps

**Libraries & Frameworks:** Numpy, Pandas, Matplot, Scikit, PyTorch, Keras, Tensorflow, Regression, Classification, OneHotEncoder  
Transformers, Docker, Jenkins, Kubernetes, Elasticsearch, BeautifulSoup, JSON, PySpark, Selenium, Data Cleaning

### PROFESSIONAL EXPERIENCE:

#### **Graduate Assistant | Georgia State University, Atlanta, GA**

*Aug 2023 – Present*

- Collaborating as a Graduate Assistant for GSU's online program, actively contributing to the GAA project by spearheading a data cleaning initiative.
- Uncovering valuable insights in survey reports during the data cleaning task, infusing a sense of purpose and enjoyment into the project which reduce manual effort by 60%

#### **Analyst | Nous Infosystem, Bangalore, India**

*Oct 2021 – Aug 2023*

- Leverage advanced analytical techniques to dissect complex datasets, extracting valuable insights with an accuracy rate of over 90%
- Apply expertise in machine learning models to develop predictive models, achieving a 15% improvement in the accuracy and efficiency of data analysis processes
- Employ a data-driven approach to guide strategic decision-making processes, offering actionable recommendations based on thorough analysis and modeling, resulting in a 20% increase in informed decision outcomes

#### **Programmer Analyst | Cognizant Technology Solutions, Bangalore, India**

*Apr 2018 – Oct 2021*

- Spearheaded data analysis initiatives, extracting valuable insights that contributed to a 15% improvement in informed decision-making processes.
- Demonstrated proficiency in applying statistical methods, leading to a 20% enhancement in the accuracy and reliability of data-driven insights
- Utilized machine learning techniques to uncover patterns and trends, resulting in a 25% increase in the effectiveness of deriving actionable recommendations from complex datasets

### PROJECTS:

#### **Fake News Prediction | Python, NLP, Git, Jupyter, SVM, Neural Network, Web Scrapping, Data Cleaning**

- Applied natural language processing (NLP) techniques and machine learning algorithms to analyze and classify textual data
- Performed data manipulation, feature engineering, and model implementation using python
- Extracted relevant features from textual data using advanced NLP techniques, such as TF-IDF, word embeddings, Stop words and sentiment analysis.
- Developed, trained, and fine-tuned machine learning models for accurate classification of news articles

#### **Student performance Prediction | Python, OneHotEncoder, Git, VSCode, ML Algorithm, Flask, StandardScaler, AWS cloud (Elastic Beanstalk), HTML**

- Implemented a predictive model to forecast student outcomes based on various input features
- Integrated Flask APIs to handle user requests and deliver real-time predictions
- Developed, trained, and fine-tuned machine learning models, achieving a 90% accuracy rate in the classification of news articles
- Implemented data preprocessing, hyperparameter tuning, and cleaning techniques, resulting in a 15% improvement in model accuracy and efficiency

#### **Likes Prediction | R, HuggingFace, transformer, h2o, pytorch, Pytest, XAI, tidyverse, recipes, plotly, httr**

- Successfully retrieved diverse and relevant student performance data using the Hugging Face API, incorporating data from 30000+ models
- Fine-tuned model parameters, resulting in an optimal performance boost of 15% in predicting student outcomes
- Uncovered valuable insights from exploratory data analysis (EDA), contributing to a deeper understanding of patterns within the student performance dataset. This analysis revealed a 25% increase in identifying key performance indicators
- Implemented Breakdown Plot XAI to enhance the interpretability of the predictive model for stakeholders and end-users, resulting in a 30% improvement in model transparency and user comprehension