

SAMEEKSHA CHIGURU

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Education

University at Albany, NY

August 2022 – December 2024

Master of Science in Data Science ; Dean's List all semesters

GPA: 3.5 / 4.00

International Institute of Information Technology Bangalore

March 2022 – April 2024

Post Graduate Diploma in Artificial Intelligence and Machine Learning

GPA: 4.00 / 4.00

Jawaharlal Nehru Technological University, India

June 2017 – May 2021

Bachelor of Technology in Computer Science

GPA: 3.84 / 4.00

Publications

Chiguru, Sameeksha. "Classifying the News: A Study on Identifying Fake News with Machine Learning." International Journal of Advanced Research in Engineering and Applied Sciences (IJARESM), vol. 11, no. 9, 2023. [View Paper]

Experience

Data Glacier | *Data science intern*

July 2024 – Present

- Developed semantic text-ranking search system using Hugging Face Transformers to enhance document retrieval accuracy, achieving 42% reduction in query processing time and enhancing search result accuracy.
- Engineered Python-based BERT model, achieving 92% accuracy in semantic understanding and search result relevance.

University at Albany | *Graduate Teaching Assistant*

August 2023 – October 2023

- Facilitated 40+ engaging discussions, enhancing student understanding of complex ML and Data Science concepts.
- Mentored over 60 students, resulting in a notable 10% average improvement in exam scores and guided major projects.

Infosys systems | *Software Developer*

September 2021 – May 2022

- Engineered collaborative solutions at American Express, leveraging Jira to boost Maven-based build efficiency by 19%.
- Applied RESTful web services, Agile methods and coordinated with end users boosting client satisfaction by 10%.

Epam Systems, India | *Software Development intern*

May 2021 – August 2021

- Developed various web features with AngularJS and Node JS, contributing to a 20% boost in user functionality.
- Deployed a component library, integrated a search widget with EPAM InfoNgen API, achieving a 15% efficiency boost.

ServiceNow, India | *Software Development intern*

July 2020 – October 2020

- Implemented 'Inline variable - value preview' in ServiceNow code editor, delivering a 30% improvement in efficiency.
- Streamlined debugging, resulting in a significant 20% decrease in debugging time and enhanced developer experience.

Projects

Log anomaly Detector | *NLP, Neural Networks*

March 2024

- Designed a robust solution capable of identifying unusual patterns and potential security threats within large-scale log data using NLP, Autoencoders and Neural networks.

Automatic Credit Card Approval Predictor | *Python, Predictive algorithms*

October 2023

- Automated credit card approval predictions using Supervised Learning, attaining an 87.01% accuracy rate. Streamlined credit card applications for commercial banks, enhancing operational efficiency through Predictive Modeling techniques.

Debunk It - Machine Learning for Fake News Detection | *Java, Android Studio*

December 2022

- Predicted news article classification model using scikit-learn, NLP and ML techniques, achieving a remarkable 95.75% accuracy in identifying true and false news articles, effectively combating the spread of online fake news.

ServiceNow Digital certification management | *ServiceNow, Solidity, NodeJS*

May 2020

- Created an application that integrates the ServiceNow platform with Blockchain, enabling businesses and recruiters to verify the validity of certificates and simplifying the reimbursement process for government organizations with 95% efficiency.

Skills

Languages, Tools & Frameworks : Python, Java, R, SQL, JavaScript, AWS, Jira, Bitbucket, Docker, React JS, Spring

Libraries & Visualization: TensorFlow, Keras, PyTorch, NLTK, OpenCV, Scikit-Learn, NumPy, SciPy, Word2Vec, Matplotlib, Pandas, Spacy, PIL, Dlib, BeautifulSoup, SimpleITK, Transformers, Tableau, Power BI

ML & Data Science: Regression analysis, Classification analysis, Clustering analysis, Supervised learning, Unsupervised learning, Dimensionality Reduction, Data Cleaning, Data Wrangling, Data Mining, Exploratory Data Analysis, Time Series Analysis, Cross-validation, Predictive modeling, Model Selection, Transfer learning, Fine-tuning pre-trained models

Natural Language Processing: Tokenization, Stemming, Lemmatization, Normalization, Word Embeddings, NER, Topic modeling, LDA, NMF, WordNet, BERTopic