

# Bindu Latha Baniseti

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## EDUCATION

### MASTER OF SCIENCE IN DATA SCIENCE

NORTHEASTERN UNIVERSITY

Boston, MA | Dec 2023

### BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE ENGINEERING

V R SIDDHARTHA ENGINEERING COLLEGE

Vijayawada, India | Mar 2013

## SKILLS

**DeepLearning Architectures:** YOLO, Mask-RCNN, U-Net, ResNet, LSTM

**Machine Learning Algorithms:** Anomaly Detection, Recommendation Systems, Logistic Regression, Linear Regression

**Data Science stack:** Python (Numpy, Pandas), Scikit-learn, TensorFlow, Pytorch, R, Matplotlib

**Platforms:** GCP, AWS, Git, Colab, Jupyter Notebook, RStudio

## WORK EXPERIENCE

### DATA SCIENTIST INTERN | SPARE-IT

Boston, MA | Jan 2023 – Aug 2023

- Collaborated with **Google** to use the pre-trained **CircularNet Mask R-CNN** model through Transfer Learning.
- Reduced 90% of time taken in identifying objects manually by performing computer vision task of **instance segmentation**.
- Set up data pipeline by developing **Lambda** functions through **AWS CDK**, used **Sagemaker** to invoke the model for inference.

### GOOGLE CLOUD DATA ENGINEER | DATAMETICA

Pune, India | Aug 2018 - Dec 2021

- Reduced 60% of runtime by migrating existing Netezza/ Redshift/ **PySpark**/ MySQL ETL/DWH workflows into **BigQuery**.
- Recognized by senior managers for **optimizing** the runtime by 30% with pruning, partitioning, bucketing while extracting valuable insights from complex datasets.
- Carried out **data preprocessing** and data integration by building entire data-pipelines to perform ETL and **data analytics**.
- Managed a team of 4 people and conducted various knowledge transfer sessions for seamless functioning.

### ASSOCIATE CONSULTANT | CAPGEMINI

Hyderabad, India | Oct 2016 – Jul 2018

- Accomplished Product/Custom menu customizations for the banking product Finacle using **finacle scripting** and javascript.
- Resolved more than 70 tickets while engaging directly with the stakeholders and product users.
- Mentored and led a team of 3 junior colleagues for implementing customizations.

### SYSTEMS ENGINEER | INFOSYS

Hyderabad, India | Mar 2014 – Sep 2016

- Created about 6 **jasper reports** for generating daily/monthly account statements in Finacle.
- Implemented enhancements and collaborated with cross functional teams for **data designing** and development.
- Executed ChangeRequests, bug-fixing in the product code, sanity testing and documentations.

## PROJECTS

### FAKE NEWS DETECTION

NLP, NLTK, GloVe, RNN, LSTM

- Performed statistical analysis and NLP analysis including data cleaning, tokenizing, vectorization and detected the fake news using different Supervised and Deep Learning models.
- Achieved an accuracy of 92% on the validation set and 88% on the test set, indicating the model's effectiveness in distinguishing between fake and real news articles.

### HEAVY DRINKING DETECTION

TIME SERIES ANALYSIS, SVM, RANDOM FORESTS, CNN, LSTM

- Employed time-series analysis and feature extraction on accelerometer data, accurately classifying intoxication level as 'intoxicated' or 'sober'.
- Achieved an accuracy of 85% on the validation set, demonstrating the model's ability to accurately detect heavy drinking episodes based on accelerometer data.

### CREATIVE WRITING COLLABORATOR USING GPT-3

TRANSFORMER, LARGE LANGUAGE MODELS

- Developed a platform where writers can collaborate with GPT-3 to brainstorm ideas, refine plots, and overcome writer's block. Enabled the model to suggest plot twists, character developments, and dialogues.
- Enhanced the creativity and productivity of writers, as evidenced by a 25% increase in word output and positive feedback from users.

### MOVIE RECOMMENDER SYSTEM

CONTENT-BASED COLLABORATIVE FILTERING

- Built a movie recommender engine using weighted ratings, content based, sentiment based and collaborative filtering methods.
- Achieved an RMSE of 0.85 on the validation set, indicating the model's ability to predict user ratings accurately.

## CERTIFICATIONS & AWARDS

- Machine Learning Specialization** and **Deep Learning Specialization** certification from **Deeplearning.ai**.
- Google Certified Professional Data Engineer**.
- Endowed with **StarAward** in Datametica for successful deployments following CI/CD pipelines.