

NIKHIL REDDY POTTANIGARI

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EDUCATION

NATIONAL INSTITUTE OF TECHNOLOGY - WARANGAL

May 2017 – May 2021

Bachelor of Technology, Computer Science & Engineering; Cumulative GPA: 7.73/10.0

Relevant Coursework: Data Mining and Data Warehousing, Data Science, Machine Learning and Computer Vision.

EXPERIENCES

MetaMenu – Hyderabad, India

[Link](#)

Co-FOUNDER

Jan 2022 – Present

- Currently developing an augmented reality app to showcase items in an interactive way from our digital menu.
- Implemented inventory system to reduce food wastage by forecasting future demand using LSTM and recommending a dynamic pricing strategy using raw material costs and their expiration dates with a Gradient Boosting Regressor.
- We have impacted 9 clients across 3 states by decreasing their operating costs by 10%.

ServiceNow – Hyderabad, India

SOFTWARE ENGINEER

June 2021 – Present

- Built an unsupervised recommendation system that recommends a similar ticket to a given ticket. Reduced the time to resolve new tickets significantly. Exploited pre-trained word representations such as word2vec and GloVe.
- Developed a Recommended Actions Framework that is used across the organisation in plugin mode and involved in full stack development as well as developing ML and NLP solutions for Enterprise use cases.

MathWorks – Hyderabad, India

EDG Research Intern

April 2020 – June 2020

- Researched and implemented a scalable clipboard management solution for the new Browser-based version of MATLAB.
- Handled various data types for clipboard actions with maximising support across multiple browsers.

SELECTED PROJECTS

PAIRWISE MAXIMUM MARGIN MATRIX FACTORIZATION

[Link](#)

- Derived an algorithm with a new loss function and gradients, optimised on hinge loss of pairwise distance between points which reduced the bias problem of Hierarchical Matrix Factorization algorithm.
- Implemented the algorithm with metrics like ZOE, MAE and RMSE in Python, worked with MovieLens 100K Dataset.
- Results showed better accuracy than baseline Matrix Factorization models.

IMAGE-CAPTIONING

[Link](#)

- Used Neural Networks to automatically caption the images in Flickr 8K Dataset.
- Repurposed the InceptionV3 model by removing the softmax layer to enable transfer learning. This output of the network is fed as the image data to the neural Network.
- The Long Short Time Memory(LSTM) is used as the Network to process the partial captions generated after each iteration.

PNEUMONIA-DETECTION

[Link](#)

- Detection of Pneumonia in humans from chest x-ray scans using CNN. Used data augmentation to increase training data and model robustness to reach an accuracy of 90%.

CHILDREN SKILL DEVELOPMENT APP

[Link](#)

- Developed an app which helps children with skill development in an interactive manner through Simon Says game.
- Achieved Real-time pose detection with PoseNet and web app using ReactJs, won runner-up in Atmanirbhar Bharat Abhiyan.

ACHIEVEMENTS

- Llama award as best contributor in first quarter at ServiceNow.
- All India Rank 27 In Mathematics Olympiad.
- Winner of inter-college badminton tournament.

LEADERSHIP & EXTRACURRICULARS

- Web Developer at [WSDC](#) (Web & Software Development Community).
- Additional secretary at the Computer Science and Engineering Association.
- Hostel Representative at NIT Warangal.
- Co-founder of start-up Pool-In (Students material exchange platform to encourage re-usability)

SKILLS

Languages: C, C++, Java, Python, JavaScript, NodeJS, SQL, React

Tools & Libraries: Git, ServiceNow, Matlab, Simulink, NumPy, Pandas, Scikit-learn, TensorFlow, Keras, Pytorch