

PARIKA VYAS

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EDUCATION

BIRLA INSTITUTE OF TECHNOLOGY, MESRA

June 2016 – July 2020

Bachelor of Engineering (BE), Electronics & Communication Engineering

CGPA: 7.58/10 (3.56/4)

Projects: [Advanced Surveillance System](#) using Computer Vision, [IMDB Movie Recommender System](#) using GNN

Vice President - Literary & Debating Society, Student Coordinator - IEEE BITM, Mess Secretary - Girl's Hostel

HUTCHINGS HIGH SCHOOL & JR. COLLEGE

Honors: Maharashtra State Scholarship for Academic Excellence (2013 & 2015), Most Promising Student Award

EXPERIENCE

ZS ASSOCIATES

Data Science Associate

July 2020 - Present

- Executed Healthcare Referral Network Analysis using graph models to measure the latent influence factors
- Built a scalable recommendation module using graph convolution networks for link prediction in heterogeneous user-item graph for personalization product Personalize.AI (P.AI) on AWS & Azure
- Implemented explainable & scalable customer segmentation module using hierarchical clustering on SHAP values of a regression model. Visualized these micro & macro-segments using Voronoi Tessellations for P.AI product
- Deployed P.AI using airflow, sales for salad company increased by 76% while the sales for technology corporation increased by 23%; Won the Agile Innovation of the Year Award at ZS
- Created a POC for a biopharmaceutical drug manufacturing problem using multi-variate optimization using Gurobi
- Constructed a suggestions pipeline for touchpoint optimization in a Multi-Channel Marketing problem on AWS
- Led ADS Engagement Activities by conducting hackathons and co-founding ADS Dialogue Series, podcast show where we interview data science industry leaders to learn from their experiences

Data Science Associate Intern

Jan 2020 - July 2020

- Experimented multiple graph-based methods and libraries like GNN, HinSAGE, PinSAGE, Attention Based GCNs

MAIARA TECHNOLOGIES PVT LTD (MICROTEK INC)

Machine Learning Intern

Dec 2018 - Jan 2019

- Developed CNN model for [Broken Phone Screen Detection](#) to validate images for an insurance company
- Created and processed the phone screen image database using Keras & OpenCV; Deployed model using Flask

FORBES MARSHALL

Summer Intern

May 2017 - July 2017

- Investigated solutions for anomaly detection in condition monitoring of vibration systems for turbine sensor data
- Presented extensive literature survey and in-depth analysis of ANFIS, Artificial Neuro-Fuzzy Inference System

RESEARCH EXPERIENCE

ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO

May 2019 - July 2019

Research Student (Immersive Summer Research Experience Scholarship, BIT North America Alumni Association)

- Worked on smart glasses for visually impaired persons by optimizing object detection and recognition networks
- Won Poster Presentation for analysis of the research on [Hyperparameter Tuning for Neural Network Optimization](#)

EXTRA-CURRICULAR ACTIVITIES

PARI-UDAAN, Co-founder

Oct 2019 - Present

- Started an NGO for uplifting girls from the underrepresented communities of Rajasthan by educating them
- Taught dance and coding to seven girls high school girls who will be pursuing college education with our help

TEDx BIT MESRA, Student Coordinator

Jan 2019 – Jan 2020

- Led the TEDx team as VP of Literary Society, organized TEDx'2019 and invited eminent guests from many fields

SKILLS & CERTIFICATIONS

Skills: Python | C | R | Pyspark | SQL | Tensorflow | PyTorch | Keras | Deep Graph Library | NetworkX | Gurobi | AWS

Certifications: SQL for Data Science by UC Davis | CS224W Machine Learning with Graphs by Stanford