

Shamal Shaikh

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EDUCATION

National Institute of Technology, Warangal, India

Aug 2018 - Present

Bachelor of Technology in Computer Science and Engineering

CGPA: 8.72/10 (up to 7th semester).

Active member of Undergraduate Research Association, IEEE Student Branch, and Computer Science and Engineering Association.

Relevant Coursework: Data structures and Algorithms, Database Management System, Operating Systems, Computer Networks, Machine learning, and Data Science.

PROFESSIONAL EXPERIENCE

Oracle India Pvt. Limited

Summer Intern

May 2021 - July 2021

- Designed and developed a framework for handling Data Guard sync across primary and standby Container-DBs, when Primary-DB operations (create, delete, unplug-plug and clone) are performed. Used Java, Perl, RMAN, DGMGRL, and Oracle Enterprise Manager.
- Performed a proof of concept for identifying the right approach to rectify the breakdown of data guard sync with zero downtime.
- Tested and certified patches for Cloning of Non-Container-DB and Primary-DB in a Transparent Data Encryption (TDE) environment.

Web and Software Development Cell, National Institute of Technology, Warangal

Sep 2019 - Sep 2020

Web Developer

- Designed and implemented the Conference Management System section of the institute website, enabling faculty to register conferences and events conducted on campus.
- Worked towards the development and maintenance of the Results section of the institute website.

PROJECTS

Iterative Maximum Margin Matrix Factorization in Movie Recommender Systems

Sep 2021 - Present

National Institute of Technology, Warangal

- Spearheading my research team of three on recommender systems.
- Investigated the iterative maximum margin matrix factorization (HMMMMF) model for collaborative filtering.
- Proposed an efficient and novel framework for constructing a hierarchical multi-class SVM model of binary matrix factorization to handle the matrix completion of the ordinal rating matrix using the MovieLens dataset.
- Working towards comparing our method with nine state-of-the-art algorithms based on two movie recommendation benchmark datasets using Root Mean Square Error (RMSE) and Mean Absolute Error (MAE) measure.

Traffic Sign Classification

March 2021 - May 2021

National Institute of Technology, Warangal

- Built a CNN model to identify traffic signs with 95% accuracy using TensorFlow, Keras on a German Traffic Sign Recognition Benchmark (GTSRB) dataset, overcoming the main challenges of poor resolution and contrast of images and class label skew of the dataset.

VOLUNTEERING

Computer Science and Engineering Association, NIT Warangal

August 2021 - Present

Joint Secretary

- Led the Quiz and organized 20+ events within four months.
- Piloted the Event Conduction and Coordination (ECC) Team.

IEEE Student Branch, NITW

August 2021 - Present

Web Development Lead

- Developed IEEE - Student Branch, NIT Warangal chapter website for scheduling and promoting events and activities held.
- Mentored and mobilized the web development team by regular design meetings.

ACHIEVEMENTS

- Awarded first runner-up position among 41 teams in Devathon - an annual coding competition conducted in NITW, 2019.
- Secured perfect scores (800/800) in each SAT subject test - Math Level II, Physics, Chemistry, 2017.
- Gold Medalist, Received Academic Excellence Award for scoring 94.8% in the All India Senior School Certificate Examination (AISSE), International Indian School - Al Jubail, 2018.
- Gold Medalist, Received Academic Excellence Award for scoring 10/10 GPA in the All India Secondary School Examination (AISSE), International Indian School - Al Jubail, 2016.

SKILLS

Programming Languages: Python, Java, C, C++, SQL, Matlab, Perl, Git

Web Development: HTML, CSS, JavaScript, Bootstrap, Django, ReactJS

Libraries: PyTorch, TensorFlow, Keras, Numpy, Pandas, Scikit-learn, Matplotlib

Languages: English (Proficient), Hindi (Native), Urdu (Native), Telugu (Fluent), Arabic (Intermediate)