Maulik Shah

AI Engineer and Researcher

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Milwaukee, WI. GitHub: /mauliknshah

EDUCATION

University of Georgia

Athens, GA

Master of Science in Artificial Intelligence

Aug 2016 - May 2019

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Gujarat Technological University

Ahmedabad, India

Bachelor of Engineering in Computer Engineering

Jul 2008 - July 2012

TECHNICAL SKILLS

• AI Skills: Classical machine learning methods and classical NLP. Image segmentation with deep learning frameworks like UNET, VNET, etc. Data Engineering and Visualization. Decision-theoretic frameworks like MDP, MCTS, I-POMDP. Motion planning in Robotics. Evolutionary Algorithms. Human psychology in decision making.

- Programming Languages: Java, Python, C++, SQL/PLSQL, R, VBA, LaTeX.
- Frameworks and Libraries: ROS, BURLAP, Spark, PyTorch, OAF and ADF for Oracle EBS, Oracle SOA.
- Versioning: Git. Platforms: Google Cloud, Microsoft Azure.

Academic Projects

• Scalable Individual Planning in Open Agent Systems (Masters' thesis):

Jun 2017 - April 2019

- Designed a decision theoretic individual planning framework for multi-agent systems involving many agents.
- Submitted a paper for this research to NeurIPS 2019.

• Analysis of EU Amendment Delegation:

Apr 2017 - Jun 2017

- Created an ML predictor for classifying the European Union amendments on delegation to third parties.
- Utilized of classical NLP techniques and other visualization methods in R.

• Documents Classification:

Jan 2018 - Feb 2018

- Performed classification of a Reuters's document dataset sizing 100+ GB while achieving a 90%+ accuracy in a team of 3.
- Utilized classical NLP methods using Apache Spark on GCP clusters.

• Insurance Data Classification:

Nov 2016 - Dec 2016

- Applied regression methods on an insurance dataset from a Kaggle competition with more than 100K records.
- Used classical machine learning methods like linear regression, decision trees, etc.

• Prediction of Human Brain's State:

Mar 2018 - May 2018

- Segmented and registered 3D brain MRI images to identify healthy or pathogenic brain states in a team of 2.
- · Used a deep learning framework V-NET in PyTorch on Nvidia on-premise and GCP GPU machines.

• Sudoku Solver:

Nov 2016 - Dec 2016

- o Designed a dynamically parameterized genetic algorithm that solves Sudoku as a constraint satisfaction problem.
- Used an island model for parallelism in GA and programmed from scratch in Java with multi-threading.

Relevant Experience

Johnson Controls AI Software Engineer

Milwaukee, WI

June-2019 - Present

EITS, University of Georgia

Athens, GA

Student Worker in Student Information and Systems Team

Feb 2017 - Feb 2018, May 2018 - May 2019

- Automated the data-warehousing snapshots, thereby avoided manual scheduling tasks.
- o Conducted data migration, reconciliation, and reporting involving academic records in millions.
- o Awarded UGA Student Employee of the Year, 2017.

Evolutionary Systems Pvt. Ltd.

Ahmedabad, India

Technical Consultant in Application Development Team

Aug 2012 - Aug 2016

- Contributed to 10+ enterprise projects globally reaching a user base in thousands for front-back end application development, workflow design, system integration and technical consulting, primarily in Oracle ERP, SOA, and database technologies.
- Helped the company to retain project knowledge with industry standard documentation, training, and mentoring.

Volunteer Experience

• UGA Graduate School Emerging Leader Program

Sep 2017 - Jun 2018

• UGA Red Cross

Sep 2016 - Present

• Speak Out for Species at UGA

Sep 2017 - Dec 2018

• AIESEC in Ahmedabad, India

Feb 2011 - Dec 2011