

# Varshani Reddy Patlolla

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Portfolio: [varshanipreddy.github.io/varshanipreddy\\_portfolio](https://varshanipreddy.github.io/varshanipreddy_portfolio)

## EDUCATION

- Texas A&M University** College Station, TX  
*Master of Computer Science; GPA: 4.0/4.0* Aug 2022 - May 2024
- National Institute of Technology** Raipur, India  
*Bachelor of Technology in Computer Science and Engineering; CPI: 8.58/10.0* Jul 2016 - May 2020

## TECHNICAL SKILLS

- Languages:** Python, HiveQL, C++, C, SQL, Bash, JAVA, Java Script, PHP, HTML, CSS
- Frameworks/Lib:** Hadoop, Ruby-on-Rails, Django, Scikit, React, OpenCV, NLTK, PyTorch, TensorFlow, Flask, Pandas, Numpy
- Databases:** Apache Hive, PostgreSQL, MySQL, SQLite
- Platforms:** Linux, MacOS, Windows, Huawei-DevOps, MLOps, Azure, AWS, Docker, Heroku
- Technologies:** Machine Learning, Big Data Hadoop, App Development, Blockchain, Web Development, Recommendation Systems, Computer Vision, NLP, Cyber Security, Version Control(git, svn), CI/CD
- Certificates:** AWS Certified Cloud Practitioner [1000/1000], Java - ECQ (Java Enhance Code Quality Exam) by Huawei

## EXPERIENCE

- Texas A&M University** College Station, TX  
*Graduate Assistant* Jan 2023 - Present
  - Skills:** HPC, Linux, Benchmarking, Azure DevOps, Kentico, C#, ASP.NET, HTML, CSS, MVC, IIS Web Server, Content Management Systems, Memverge, Algorithms
  - Graduate Assistant: High Performance Computing:** Handle tickets related to HPC systems & benchmarking QM codes
  - Web Development:** Handle PBIs, bugs, test cases, enhancements, migrations, and access for websites hosted on Kentico CMS
  - Algorithms Grader:** Provided precise assessment and constructive feedback as a grader for Algorithms CSCE 411
- Huawei Technologies India Pvt. Ltd.** Bangalore, Karnataka  
*Senior Software Engineer* Aug 2020 - Jul 2022
  - Skills:** Apache Hive, Python, HiveQL, SQL, OLAP, ETL, MLOps, Machine Learning, Deep Learning, Hadoop, Hdfs, NLTK, Tensorflow, Scikit, Git, Svn, Gitlab, Numpy, Pandas, PyTorch, Flask, Database, Linux, Bash, Data Mining, Data Science
  - HiveQL Automation, Feature Engineering and Streamline Hive Workflows:** Developed and automated 30 Hive tasks to analyze logs and generate tags or features for partitions (OLAP), facilitating rule engines (e.g., payment and account safety). Streamlined Hive workflows for test and dev env, ensuring efficient dependency handling and partition management.
  - Offline ML/DL Models:** Designed and developed 11 risk detection ML models with around 15 features per model, processing millions of records each. Orchestrated 100+ Hive tasks for feature calculation, with over 92% improved risk assessment accuracy.
  - End-to-End MLOps Configuration:** Established MLOps configuration, data sync workflows, and improved model development efficiency by over 60% by addressing resource allocation, Docker image, and model deployment issues.
  - Deployment Component Management:** Developed and deployed 20+ components for ML model requests. Managed service deployments and resolved MLOps issues collaboratively in Production environment.
  - Documentation and Rulebooks for MLOps:** Thoroughly documented the end-to-end processes and rulebooks for MLOps, ensuring clear and concise guidelines for the deployment and management of machine learning models.
- Ittiam Systems Pvt. Ltd.,** Bangalore, Karnataka  
*Software Engineering Intern - Computer Vision* May 2019 - Jul 2019
  - Skills:** Python, C++, OpenCV, Numpy, Vectors, Computer Vision, Algorithm enhancement
  - Project:** Enhancement of foreground detection and background modeling in videos using the OpenCV library
  - Implementation:** Explored diverse solutions to enhance foreground detection & background modeling. Achieved more than 50% accuracy improvement on the datasets by interpreting histogram peaks and valleys of the motion. Utilized C++ (vectors) and Python (numpy) for efficient video data-sets processing.

## OTHER PROJECTS

- Fridge2Table (Django, Bootstrap, PostgreSQL, Python):** Developed a recipe recommendation website with personalized suggestions based on item-item CF, cosine, and Jaccard similarities, considering dietary restrictions. (Jan 2023 - May 2023 )
- FashionNXT CRM Service(Ruby on Rails, PostgreSQL):** Developed a feature-rich CRM solution for FashionNXT agency, including event invites, website analytics, user access management, and data handling. (Sep 2022 - Dec 2022)
- Enhanced security mechanism through blockchain for e-polling/counting using IoT devices(Hyperledger Fabric, IBM Blockchain Platform, JavaScript):** an innovative e-voting platform with heightened security (Jan 2020 - May 2020)
- HealthBot (Machine Learning, Android Studio(Java), Google DialogFlow):** A chatbot integrated android application for early stage disability symptoms in children (Jul 2018 - Aug 2018)

## AWARDS/ HONORS

- Excellent Contributor award at Huawei Technologies India Pvt. Ltd.
- Awarded scholarship by Texas A&M's Computer Science and Engineering department for exceptional academic performance.
- Management Improvement award at Huawei Technologies India Pvt. Ltd.
- Top 5 in the final 105 teams at the SKYhack hackathon organized by the Chhattisgarh government and AIC@36inc