Vivek Kumar Maskara

ARIZONA, USA | 480-352-8702 | VMASKARA@ASU.EDU

Website • Github • LinkedIn

Work History

Student Researcher 02/20 to Present

The Luminosity Lab, ASU - Arizona, USA

- Developing a machine learning model for detection of Neuroblastoma using histopathological images for PCH hospital.
- Researched and built the MVC for indoor parking automation using YOLO and DeepSort for real time vehicle tracking.
- Contributed to the backend for ASU's end to end PPE response network for producing and delivering medical supplies.
- Built a Customer 360 dashboard for Bank of West using Neo4J graph database, Flask backend and React for frontend.
- Published a gamified supply chain management learning app funded by USAID, ShipShape for iOS and Android.

Senior Software Engineer

06/16 to 11/19

Zeta, Directi - Bangalore, India

- Built NFC based contactless payments & custom ordering solution for POS attributing to 1 million+ monthly transactions.
- Built the interface for Zeta's rule engine using the Camunda DMN Decision Engine as part of the internal data science toolkit.
- Contributed to over 20+ projects in Zeta spanning across Android, Raspberry Pi and backend microservices.
- Built an assistant bot to order food using Google's conversational AI.
- Responsible for optimizing query performance for PostgreSQL and building throughput and service health monitoring dashboards using Grafana and Kibana.

Education

Master of Science, Computer Science

Expected in 12/21

Arizona State University - Tempe, Arizona

GPA:4.22

Relevant Coursework: Statistical Machine Learning, Data Mining, Cloud Computing

Bachelor of Technology, Software Engineering

05/16

Delhi Technological University - New Delhi, India

GPA: 3.34

Relevant Coursework: Computer Graphics, Artificial Intelligence, Object-Oriented Programming, and Digital Image Processing

Projects

Grain Measurement System, Inweon

08/15 to 05/17

- Used linear regression and segmentation algorithms to analyze rice particles with 99% accuracy.
- Used in 100+ rice mills across India with 1000+ readings taken on a daily basis.

Flight Departure Delay Prediction, Major Thesis

01/16 to 05/16

- Compared prediction accuracies using Bayesian networks, Decision Trees & Logistic Regression
- Achieved an accuracy of 90% with the J48 Decision Tree.

Code Analyzer for Plagiarism Detection, Minor Thesis

08/15 to 12/15

• Used unsupervised K-means and K-medoids clustering algorithms to detect plagiarism in coding competitions.

Volunteering

Wikimedia Foundation

03/17 to Present

- Actively contributing to the Wikimedia Commons Android app as a developer, mentor and project maintainer.
- Have received multiple project grants and travel scholarships to participate in annual conferences and hackathons.
- Have been mentoring students during summers for Google Summer of Code, Outreachy and Google School since 2018.

Skills

- Languages: Python, Java, Kotlin, and MATLAB
- Databases: PostgreSQL, Cassandra, Redshift, and Neo4J
- Platforms and tools: AWS, GCP, Tensorflow, ELK stack

Certifications

•	TensorFlow in Practice Specialization by DeepLearningAI	02/20
•	Convolutional Neural Networks by DeepLearningAI	02/20
•	Fundamentals of Digital Image and Video Processing by Northwestern University	06/19

Awards

- 2nd in Envision, software display event by Troika (IEEE society, DTU)
- 3rd in an all Delhi BITS BYTES event for software display