Shivani Modi

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EDUCATION

2014-2018 Manipal Institute of Technology, Manipal, Karnataka/India

GPA 8.72/10

Bachelor of Technology in Computer Science and Engineering (Minor: Information Management and Analytics)

Data Structure, Operating Systems, Advanced Database Systems, Big Data Analytics, Business Intelligence and Application, Data Warehousing and Data Mining, Information Retrieval, Product Development, and Marketing

EXPERIENCE

SAP Labs India | Technology Consultant and Software Developer | Bangalore, India

July 2018 - Present

- Responsible for Innovation Backlogs of Contract to Revenue products.
 - o Developed a digital assistant to automate the business process in Contract to Revenue IT products. (Java, Python, HANA)
 - Designed the model to convert legal contract PDF files into a digitized format that can be organized and queried for contract-related insights. (Jenkins, Python, Cloud Foundry, SAP Fiori, Docker, Fast.AI)
 - Built a model and an application for customer ranking in the cash collection process of FICA. (SAP Fiori, Python, oData)

SAP ARIBA | INTERN | Bangalore, India

Jan 2018 - June 2018

- Formulated and implemented a recommendation system by using one-shot learning, deep learning and NLP stack for service requisition process. (Siamese Network, word2vec, LSTM)
 - Designed an offline module to compute Fspace representation and reduced runtime to 2 seconds by using broadcasting.
 - o Integrated the model in the guided buying system using AngularJS, Maven, and REST calls.
 - The project is submitted for patent filing.

Amazon Cloudtail India Pvt Ltd | INTERN | Bangalore, India

May 2017 - June 2017

- Worked on Pricing data collection, retrieval, and indexes for data warehousing on AWS platforms.
- Developed a module to automate the loading of data from cloud storage S3 to Redshift using Python.

ENGINEERING PROJECTS

PROJECT MANAS | AI Head | Manipal, India

Oct 2015 - Oct 2016

- Project MANAS is the official AI and Robotics team of MAHE, Manipal aiming to build a driverless car.
 - o Organized workshops on robotics and programming for female undergraduate students to increase their participation.
 - Developed models and ROS packages for lane, sign, and pedestrian detection adaptable to Indian roads using Transfer Learning with Deep Learning. (C++ and Python)
 - Worked on the Acquisition and filtering of data from 2D Lidar. (Gazebo, ROS)
- Created a game server for a networked multiplayer game of battleship using socket programming. (C)
- Derived and implemented a formula to calculate the balance index set of a generic graph using parallel programming. (MPI and OpenCL)
- Created a placement portal to facilitate job search for students according to their qualifications. (SQL, HTML, PHP, CSS)
- Compared MySql, Cassandra and Apache Parquet data models across performance metrics and developed a website using Cassandra.

SKILLS

Languages: C, C++, Python, Java, AngularJS, HTML, CSS, PHP, OpenCL, SQL

TECHNOLOGIES: GITHUB, CUDA, ROS, HANA PAL, AWS, AZURE, MONGODB, WEKA, JENKINS, CLOUD FOUNDRY, ODATA, DOCKER

LIBRARIES: FAST AI, TENSORFLOW, PyTorch, Keras, Scikit-Learn, Numpy, Pandas, Jupyter, OpenCV, Flask

RESEARCH AND PUBLICATIONS

Classification and Comparison of Malignancy Detection of Cervical Cells Based on Nucleus and Textural Features in Microscopic

Images of Uterine Cervix.

International Journal of Medical Engineering and Informatics - 2019

Prediction of drugs for diabetes while avoiding overdosing and minimizing drug-drug interactions.

ICASET 2017, MJST 2018

ACHIEVEMENTS

- Winner of SAP Design the Future: NextLevel IT Hackathon 2018. Project to automate the process required for fiscal compliance by reduction of manual efforts in terms of tax calculation and reduction.
- Idea selected and granted funding from 118 ideas submitted at CreativeIT hackathon 2019 conducted by SAP in Waldorf.
- Identified as an SAP Catalyst by the management for 2019 2020.
- Project Manas is among 13 teams that qualified for the million-dollar Mahindra's Rise Prize challenge and won the Lescoe Cup at the Intelligent Ground Vehicle Competition held in Michigan.
- Secured 2nd position in University's technical fest Disabled Security for making eye controlled wheelchair prototype.
- Completed the requirements to be recognized as a Microsoft Technology Associate: Database Fundamentals.