

Mayuresh Girish Wagh

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194/2, Anand Park, sector-25, Pradhikaran, Nigdi, 411044, Pune, India

● WORK EXPERIENCE

11/08/2020 – CURRENT – Bangalore, India

RESEARCH ASSOCIATE 1 - Philips Innovation Campus

- Dataset preparation & pre-processing
- Trained & fine-tuned a convolutional neural network
- Developed a pipeline for auto-labeling the images & saving the annotations in an excel sheet/xml file.
- Built an offline python prototype that identifies the optimum view for liver fat quantification

● INTERNSHIPS

16/01/2020 – 03/08/2020 – Bangalore, India

RESEARCH INTERN - Philips Innovation Campus

- Worked on volume rendering & visualization
- Implemented a 3D convolutional neural network for dense semantic segmentation of a fetal heart
- Worked on placental volume stitching
- Developed a workflow on Philips's software platform for liver fat quantification

10/05/2019 – 10/07/2019 – Pune, India

MACHINE LEARNING INTERN - Maxgen Technologies Pvt Ltd

- Worked on data cleaning & pre-processing
- Predicted consumer eating patterns using time series analysis
- Compared the performances of several classification algorithms before & after re-sampling for the task of classifying a credit card transaction as fraudulent or non-fraudulent

● EDUCATION AND TRAINING

01/07/2016 – 13/08/2020 – Manipal, Udupi, India

B-TECH COMPUTER SCIENCE & ENGINEERING - Manipal Institute of Technology

-Data Structures
-Design and Analysis of Algorithms
-Formal Languages and Automata Theory
-Operating Systems
-Computer Networks
-Database Systems
-Software Engineering

Electives: Artificial Intelligence, Machine Learning, Computer Vision, Natural Language Processing

CGPA: 7.8

<https://www.manipal.edu/>

ONLINE COURSES - Coursera

Deep Neural Networks with Pytorch | Introduction to AI | Mathematics for Machine Learning | Improving Deep Neural Networks |
Introduction to Data Science in Python

● PROJECTS

Academic Projects

Placement Portal

Developed a placement portal web application which provides easy-to-use interface for students, recruiters and admin. It is helpful for training & placement officers to co-ordinate the placement activity without the need to manage the student's profile and documents for their placements manually.

Team Size: 3

Tools/Software Used: ASP.NET, C#, SQL

Responsibility: ERD Diagrams, DFDs and Use-Cases comparisons, functionalities pertaining to Student login

JavaScript Compiler

Designed a compiler for JavaScript language which is one of the OOP scripting languages used to add behavior to html pages.

Team Size: 4

Tools/Software Used: C, Flex, Javascript, Bison

Responsibility: Grammar and symbol table implementation

Independent Projects

Road Lane Detection for Automated Navigation

Created a GUI that takes a video depicting a road as an input, segments out the road & detects the road lanes. In real world scenario, a vehicle would capture a video of road through rooftop camera or using sensors, segment out the road & detect road lanes. The vehicle would then navigate within the lanes.

Tools/Software Used: Python, Image processing, Computer Vision, Deep Learning

Restaurant website front-end development

Developed a front-end for restaurant website which displays the menu & provides an option to order online. It has an option to add items in a cart. At the time of checkout, an order summary is displayed.

Tools/Software Used: HTML, CSS, JavaScript

SKILLS

Proficient in Python, Java, Javascript, C, C++ and some knowledge of Matlab | Machine Learning and Deep Learning frameworks: Tensorflow, Keras, PyTorch | Computer Vision | Image Processing | ASP.NET C# | Web Development: HTML 5, CSS, JavaScript

LANGUAGE SKILLS

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
GERMAN	A2	A2	A2	A2	A2
SPANISH	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

REFERENCES

Dr Ashalatha Nayak, Professor and HOD - Department of Computer Science and Engineering, MIT, asha.nayak@manipal.edu
Dr Renuka A, Professor - Department of Computer Science and Engineering, MIT, renuka.prabhu@manipal.edu
Shwetha Rai, Assistant Professor- Senior Scale - Department of Computer Science and Engineering, MIT, shwetha.raai@manipal.edu