



# AMAR VASHISHTH

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## EDUCATION

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<b>Master of Technology</b>   <i>Computer Science</i>	2017 – 2019
Indian Institute of Technology Madras	Chennai, Tamil Nadu
<b>Master of Technology</b>   <i>Computer Science (no-degree)</i>	2016 – 2017
Indian Institute of Technology Guwahati	Guwahati, Assam
<b>Bachelor of Technology</b>   <i>Computer Science</i>	2010 – 2014
Uttar Pradesh Technical University	
<b>Nursery to XII</b>   <i>Computer Science + PCM</i>	2009
Central Board of Secondary Education	

## WORK EXPERIENCE

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<b>Software Engineer</b>	July 2019 – Present
Myntra (Flipkart)	Bengaluru, Karnataka
<ul style="list-style-type: none"><li>Working as Full Stack Developer: SpringBoot(Java), React(JS), Azure and other technologies</li><li>Deployed from Scratch: RAPID Product LifeCycle Management System, Fulfilment Tracker and Know Your Client(KYC) System</li><li>My work also includes maintaining Airbus, the Messaging Service Bus (based on Kafka) used by services across Myntra to communicate with each other and develop features for it</li><li>Also involved in building new features in other services as well</li></ul>	

## PROJECTS AND RESEARCH

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### **Retrieving Nutritional Information of Indian Cuisines** | *Master's Thesis*

Database Generation, Object Localization, Nutrition Estimation

### **NEWS Ontology** | *Academic Project*

Use of SPARQL Protocol and RDF Query Language to produce meaningful results

### **Implementing 5G Protocol for Beam communication** | *Academic Project*

Paper Implementation in C++ Language

### **Fashion MNIST** | *Academic Project*

Use of CNN to classify fashion-MNIST dataset into 10 classes

### **Document Summarization** | *Academic Project*

Use of Bidirectional LSTM with attention mechanism, performed on WeatherGov dataset

### **SVD and Polynomial Regression** | *Academic Project*

Image reconstruction using eigen vectors and Curve Fitting

### **Bayes Classifier and Classifier evaluation** | *Academic Project*

Classification of linearly separable and non-linearly separable data, and evaluation via ROC

### **Gaussian Mixture Models | *Academic Project***

Density estimation using GMMs for real and synthetic data

### **Hidden Markov Models and DTW | *Academic Project***

Isolated and connected digits recognition using HMMs, feature extraction for handwritten digits and usage of dynamic time warping for sequential digit data recognition

### **Kernel density estimation and One-vs-all classification | *Academic Project***

Parzen Window, Fisher discriminant based classifier, Perceptron based classifier, Support Vector Machines, Neural Network

### **Robotics | *Academic Project***

Navigation, Positional Awareness

### **Spam Filter | *Bachelor's Thesis***

A GUI utility made with Java Swing, which used Bayesian Classifier to filter out User's emails in a special folder within GMail

## SKILLS

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**Languages:** English, Hindi

**Programming:** C/C++, Python, Java, Javascript, Go, MATLAB, Mathematica, C#, SQL, SparQL, PHP, BASH Shell Scripting, 8085 Assembly Language etc.

**Hands on Experience in:** Corel Draw, Corel Photo Paint, Audacity, 3D Studio Max, Wireshark, Lightroom, Microsoft Office Suite, LaTeX, Markdown etc.

## COURSE WORK

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**Deep Learning:** Feed Forward Neural Networks, CNN, RNN, LSTM, Word2Vec

**Pattern Recognition:** Gaussian Mixture Models, Bayesian Classifiers, One Vs All Classification, Parzen's Window, Neural Networks

**Robotics:** Parts used in a robot, Swarm Robotics, Genetic Algorithms

**Artificial Intelligence:** Fuzzy Logic, Bayesian Inference, Hidden Markov Models, EM Algorithm, Sampling, Probabilistic Graphical Models

**Ontologies:** RDF, OWL, SparQL, Triplestores, Turtle syntax, Description Logic

## LABS

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**Advance Programming:** Implementing various algorithms and data structures

**Digital Design:** Creation of different Circuits using various ICs

**Robotics:** Development using Lego NXT

**Networking:** Analysis of Local Network using Wireshark

**Microprocessor:** Programs in 8085 Assembly