Nitisha **PAndharpurkAR**

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[**https://www.linkedin.com/in/nitisha-pandharpurkar-277838105/**](https://www.linkedin.com/in/nitisha-pandharpurkar-277838105/) **·** [**https://github.com/nipandha**](https://github.com/nipandha)

# Experience

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| OCT 2018 – PresentJr machine learning generalist,AWM SMartshelf, aliso viejo, ca  * **Computer Vision:** Drove development of algorithms using OpenCV, OpenPose, Kinect Apis to gather spatial awareness of people, rendered optimized 3D point cloud. Deployed in production using Linux VMs on Google Cloud for live clients * **Full Stack:** Developed 90% of SQL and C# code and optimized performance using views, indexes and filtered indexes for user data, inventory analytics reporting. Deployed on Azure all clients  MAY 2017 – AUG 2017INTERN – DATA SCIENCE TEAM,SCHLUMBERGER, PUNE, INDIA  * **NLU:** Developed a Seq2Seq chatbot written in Tensorflow to incorporate Beam Search, custom LSTM stacking with attention and achieved 31.2 BLEU accuracy on the Europarl dataset  SEP 2015 – MAY 2016R&D PROJECT ASSOCIATE, IIT BOMBAY, mumbai, india  * **Full Stack:** Was lead developer for a Video Creation desktop application from presentations using Python, Django, ffmpeg and HTML, CSS and Bootstrap to display create and display videos * **NLP:** Video Classification on tags, title using python, Ontology development using the DMOZ dataset and WordNet, Indo-WordNet used along with embeddings and video stills * **Data Mining:** Used Python and ScraPy to extract video tag information from online courses, YouTube  Jul 2014 – SEp 2015Software developer, Microsoft, Hyderabad  * Developed and deployed Rest OData Endpoints using SQL, C# in Asp.Net MVC 4 for User Data Purchases * Wrote framework code for Custom Azure Application Insights for user reactions on Sales used along with Azure ML capabilities * Designed, debugged, automated operations in SQL Always On cluster, PowerShell scripts for MS largest data-center; Optimized a PowerShell script run in cluster by 40% using multithreading   **Research PROJECTS AND GITHUB**   * [**Independent Research | NYU**](https://github.com/nipandha/NashProp_course_proj) **–** Implemented the NashProp algorithm for repeated games for The Hotelling’s problem (Python) * [Semi-Supervised Hierarchical Classification](https://github.com/nipandha/hierarchical_classification) **–** Augmented the LibSVM library to perform hierarchical SVM classification on the DMOZ dataset (C++) |

# Education

### FALL 2016

## Master’s in Computer science, New York University, Courant

**GPA:3.433** Research in Advanced ML

### Coursework: Production Quality Software, Operating Systems, Scientific Computing, Big Data, ML, NLP

### fall 2010

## Bachelor’s in Computer ENGG,

## Cummins college, pune

**GPA: 3.78**, Class Rank: 6/90

Elected as Technical Secretary for Undergraduate Division in 2013

# Skills AND GITHUB

* **Technologies:** SQL (2+), Python (1+), C# (2+), MySQL (1+), [Java](https://github.com/nipandha/Linker-and-Scheduler), Go, C, [C++](https://github.com/nipandha/hierarchical_classification), Powershell (1+), Linux Shell, Hadoop Javascript, Bootstrap, CSS (2+), D3, R, Sockets (1+), [Spark](https://github.com/nipandha/Recommendor-System), React (1+), [OpenCV](https://github.com/nipandha/face-segment), Sklearn, Gcloud (1+), Azure, ASP.NET (2+), Django (1+), Jupyter, TensorFlow(1+), [PyTorch](https://github.com/nipandha/traffic-sign-detection-homework), Angular,
* **Machine Learning:** [SVMs](https://github.com/nipandha/hierarchical_classification), [Logistic Regression](https://github.com/nipandha/hierarchical_classification), KNN, KMeans, GLM, [AdaBoost](https://github.com/nipandha/Adaboost), RF, [VAEs](https://github.com/nipandha/Image-Generation-Comparisons), [Probabilistic Graphical Models,](https://github.com/nipandha/NashProp_course_proj) TF-IDF, [Neural Attention](https://github.com/nipandha/nli-batch-optimizations), [Recurrent NNs](https://github.com/nipandha/Chinese-Word-Segmentation), BERT, [Convolutional NNs](https://github.com/nipandha/traffic-sign-detection-homework), FA, Sentiment Analysis, [MT](https://github.com/nipandha/Machine_Translation_IBM1), [NER](https://github.com/nipandha/Named-Entity-Tagger), [POS](https://github.com/nipandha/POS-tagger)
* **Open Source:** [LibreOffice Extension](https://extensions.libreoffice.org/extensions/presentation-creation-tool)

**ACHIEVEMENTS**

* Graduate course project for ‘Inference & Representation’ among few extended for research
* Undergraduate 2nd rank in national C/C++ Algorithms Competition, “Innovation”, Pune
* Undergraduate CSI Publication: "Architecture Patterns in Cloud Computing" seminar 15/270