

# VARUN B PATIL

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**GitHub** [github.com/varunbpatil](https://github.com/varunbpatil)

**Kaggle** [kaggle.com/varunbpatil](https://kaggle.com/varunbpatil)

Pythonista and C programmer with 6 years of experience with a passion for data science and machine learning.

## Experience

### Jul 2014 - present **Software Engineer @ NetApp, Bangalore**

#### *Responsibilities*

- Working on storage efficiency technologies like data compression, compaction and deduplication for WAFL (NetApp's proprietary filesystem).
- Implemented efficient and user friendly storage/disk provisioning and reporting including simulations for the RAID subsystem.
- Implemented object caching layer for the cloud backup feature in WAFL to reduce number of reads to third-party object stores (like Amazon S3) thereby reducing customer's restore-from-cloud costs.
- Developed the Space Savings Estimation Tool ([communities.netapp.com/docs/DOC-18699](https://communities.netapp.com/docs/DOC-18699)) which is a Windows and Linux CLI tool that can be run by customers to estimate the space savings they can expect if they decide to purchase NetApp data storage systems.

#### *Awards*

- Spot award for my work towards automation of unit testing in Data ONTAP using CxxTest and Python.
- "Customer Champion" award for my work on the Space Savings Estimation Tool (SSET) and gzip compression support for Yahoo.

### Jul 2012 - Jul 2014 **Software Engineer @ Cisco, Bangalore**

#### *Responsibilities*

- Worked on video codecs (H.264, H.263) for the Cisco TelePresence SX10 product.
- Worked on upgrading the TI-OMAP4 Ducati subsystem firmware.

#### *Open source work*

- Contributed bug fixes and test cases to the Cisco/Mozilla OpenH264 project ([github.com/cisco/openh264/graphs/contributors](https://github.com/cisco/openh264/graphs/contributors)).

## Software Projects

**Personal website** [varunbpatil.github.io](http://varunbpatil.github.io)

(more information on my current interests and projects)

**HoroscopeFS** [varunbpatil.github.io/2018/06/24/fusepy.html](http://varunbpatil.github.io/2018/06/24/fusepy.html)

A virtual filesystem to aggregate daily, weekly and monthly horoscopes from multiple websites. Written using Python and fusepy.

**OTP Scanner** [varunbpatil.github.io/2018/01/28/OTP-scanner-1.html](http://varunbpatil.github.io/2018/01/28/OTP-scanner-1.html)

Use a laptop's webcam to scan one-time-passwords generated by a mobile app simply by pointing the mobile screen at the webcam. Written using Python and OpenCV.

**Coursera Video Downloader** [varunbpatil.github.io/2018/01/09/coursera\\_video\\_downloader.html](http://varunbpatil.github.io/2018/01/09/coursera_video_downloader.html)

Legally download high resolution course videos from Coursera for an entire course into a nice directory structure. Written using Python and selenium.

## Software Skills

Python, C, GNU/Linux, Machine Learning, Deep Learning, TensorFlow, Keras, scikit-learn, Pandas, NumPy, Git

## Certifications

[Machine Learning by Stanford University on Coursera](#)

[Deep Learning specialization by deeplearning.ai on Coursera](#)

(certificates viewable on LinkedIn - <https://www.linkedin.com/in/varunbpatil>)

## Education

### 2012 - 2014 **Bachelor of Engineering in Computer Science @ SJCE, Mysore**

- 9.9 cumulative GPA (Received "TCS Best Student Award" for highest GPA in my batch).
- Common Entrance Test state ranking of 7.