

Jayendra Parmar

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EDUCATION

Gujrat Technological University, Ahmedabad, Gujrat, India

- Bachelor of Engineering (B.E.) in Computer Engineering

Jun 2008 – May 2012

WORK EXPERIENCE

Research Programmer at Infocusp,

- Key Projects with Bodymedia

Aug 2012 – May 2013

- RedUp is BodyMedia/Jawbone's internal classification and regression engine. I have worked on several modules of RedUP, including programming, validation and model building from the engines.
- Implementation of Classification methods: Hidden Markov Models, Multi Layer Perceptrons, Decision tree based methods (CART, AD Tree, REPTree, Logistic Regression, Random Forests), AdaBoost.
- Implementation of Regression methods: Tree-based regressions, Segments-based regressions, ridge regression.
- Design and implementation of various cross-validation based ideas.
- Auto-model generation (final Matlab, C and Java code of the model) and auto statistics logging.

- Key Projects with Jawbone

Jun 2013 – Jan 2014

- Worked on design, validation and verification, implementation (research version in Matlab, Python, Web version in Java, Python and product version in firmware/hand-held device in firmware-C / C++), statistical analysis and reporting of various estimation algorithms that go into BodyMedia and Jawbone products. Specifically,
 - Activity detection, Energy Expenditure (Calory burn)
 - Heart Rate, Respiration Rate, Blood pressure
 - Sleep, sleep stage and sleep onset prediction, Steps, Emotions
 - Sensors to aggregate features algorithms, on/off body detection

- Key Projects with a stelh mode client

Jun 2013 – Jan 2018

- Worked on a recommender system for resumes/jobs
- laid out the architecture of system
- co-developed server and core recommendation engine

- Key Projects with Cerebellum Capital Inc.

Jun 2013 – Present

- Worked on building tools and infrastructure for financial modelling.
- Backtesting tools
- Worked on distributed system which allows to code data-scientists in several languages and share their work

SKILLS

C, C++, python, java, scala, matlab, go, haskell, R, hadoop, spark, solr, lucence, numpy, scipy, scikit-learn, scikit-image, tensorflow, keras, caffe, theano, javascript, nodejs, css, html, angularjs, mysql, mongodb, redis, docker, dockerswarm, kubernetes, aws and gce ecosystem

REFERENCES

- **Nisarg Vyas** nisarg@infocusp.in
- **Jonathan Farringdon** jonny.farringdon@gmail.com
- **David Andre** dandre@cerebellumcapital.com

