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<b>EDUCATION</b>	<b>Gujrtat Technological University</b> , Ahmedabad, Gujrat, India	
	▪ Bachelor of Engineering (B.E.) in Computer Engineering	Jun 2008 – May 2012

<b>WORK EXPERIENCE</b>	<b>Research Programmer at Infocusp,</b> <ul style="list-style-type: none"><li>▪ Key Projects with Bodymedia</li></ul>	Aug 2012 – May 2013
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- 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 Cerebellum Capital Inc. Jun 2013 – Jan 2018

- 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

■ Key Projects with a stealth 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

**REFERENCES**

- **Nisarg Vyas** [nisarg@infocusp.in](mailto:nisarg@infocusp.in)
- **Jonathan Farringdon** [jonny.farringdon@gmail.com](mailto:jonny.farringdon@gmail.com)

- **David Andre** [dandre@cerebellumcapital.com](mailto:dandre@cerebellumcapital.com)