



A Smart Scale Analysis Tool for Evaluating Prospective Projects

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May 20, 2019

- Who am I?
- UMW Center for Business Research
- What is Smart Scale?
- Smart Scale Statistical Analysis Project (2018)
 - https://nbviewer.jupyter.org/github/chrisgarcia001/Notebooks/blob/master/smart_scale/Smart-Scale-Analysis-9.17.2018.ipynb

Background

- Ability to intelligently evaluate prospective projects
 - Evaluate Smart Scale scores
 - Evaluate likelihood of receiving funding
 - Explore hypothetical scenarios
- Utilize historic Smart Scale data
 - Tool becomes smarter as more data added
- Web-based interactive software tool
 - Ability to provide controlled accounts for users

Why Develop A Tool?

- Use Case 1: Evaluate a set of prospective projects
 - Input prospective project metrics
 - Use metric ranges to do sensitivity analysis
 - Select desired Smart Scale rounds to compare against
 - See the resulting Smart Scale scores and likelihoods of funding
- Use Case 2: Explore the impact of varying intensities of competition
 - Insert hypothetical competitor projects into the data
 - See the impact on funding likelihood

Example Use Cases

Phase	Estimated Duration	Key Milestones or Deliverables	Expected Cost
Phase 1: Requirements	0.5 Months	1. Pre-development meeting 2. Project contract signed	\$ 7,800.00
Phase 2: System Design	1 Month	System Design Documentation Complete	\$ 15,700.00
Phase 3: System Development	3 Months	Initial Software Code Base Complete	\$ 31,400.00
Phase 4: Testing	1 Month	1. Acceptance Testing Complete 2. Finalized Software Code Base Complete	\$ 6,300.00
Phase 5: Deployment	0.5 Months	Deployment of System Into Live Environment	\$ 7,800.00
TOTALS	6.0 Months		\$ 69,000.00

Project Structure
