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# Student Project Proposal

| Project Title |  |
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| Industry Sponsorship (if Any) |  |

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### Project Description

**Problem definition**

*[50-100 word description of the problem which you will solve]*

| We will solve the problem of automating the determination of relationships between products and customers. There are features which companies may not understand which heavily influence the decision making of customers, and other features which have heavy emphasis by companies but do not provide much influence. |
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**Key Research Questions/ Technological constraints that the Project will Answer**

| 1. How can we determine the demand for a product? 2. What are the features that heavily influence people’s buying habits? 3. How can we automate consumer demand modeling? |
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**Final deliverables at the end of the project**

*[Please list the desired technical deliverables from the project team in as much detail as possible]*

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**Key activities/ technologies the project team may be expected to undertake/ work with**

*[E.g. What kind of technology stack will you work with, the datasets you may need to work on, what kind of analysis you may be expected to undertake, etc.]*

| * Amazon review data (2018)   + product: Digital Cameras   + data spread: 23 years * analyzing online customer reviews -> feature extraction * NLP |
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**Expected learning outcomes**

*[What do you expect to learn from the project? Please mention the technical skills you will imbibe over the project.]*

| 1. Extracting features from text |
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| Team Size: | 3 |
| --- | --- |
| Member names: | Minha Hwang, Paras, Jain, Jay Shim |

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**B. Tentative Timeplan**

Submit a tentative time plan (table/chart or text) regarding breakdown of the work that will be conducted between Weeks 9 - 15.