**BINAYA SHARMA**

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***Date of birth:*** 04-26-1998

Computer engineering student with a passion for developing innovative programs that expedite the efficiency and effectiveness of organizational success. Well versed in technology and writing code to create systems that are reliable and user friendly. Strategic thinker and innovative creator to develop software / model that is customized to meet a company’s organizational needs, highlight their core competencies and further their success. Hardworking, passionate and willing to learn more.

**Technical skills**

* **Python** – Numpy, Pandas, Matplotlib, Seaborn, Sklearn
* **AI / machine learning models and algorithms** – Experience with Regression, Classification, Clustering, Model Selection, Hyperparameter tuning
* **Neural Networks** – Familiar with Keras, TensorFlow
* **Java** – Spring Framework(SPRING MVC, REST, SECURITY), Hibernate, AOP, JavaFx, JDBC, Android Development
* **Databases** - Firm background in SQL and NoSQL databases, Data Structures and Algorithms
* Hands on experience with Linux operating systems
* Basic HTML, CSS, JavaScript, C

**Non-technical skills**

* Confident problem solving abilities
* Time management
* Strategic planning
* Quick learner
* Innovative

**Education**

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| 2015 | **Bachelors in Computer Engineering**  Kathmandu Engineering College  Examination board: IOE  Expected to graduate in 2019 with aggregate score above 80% |
| 2012-2014 | **10+2 High School**  Liverpool International College  Examination board: HSEB  Grade 11: 79.6%  Grade 12: 80.6% |
| 2012 | **SLC (Grade 10)**  Brihaspati Vidyasadan  Examination board: SLC  Graduated with 88% |

**Experience / Projects**

* Virtual Self Driving Car (Engineering Final Year Project) – It is a project in progress in which I tend to build a virtual self driving car using AI and machine learning. Using Udacity’s open source car simulator and GTA Vice City (for performance reasons), I tend to build a model which can find the lanes to drive in, recognize the objects in front such as pedestrians, other vehicles, traffic signs and signals, etc. and control the acceleration, braking and steering automatically based on the objects ahead.
* Solved 8 puzzle game by using different search techniques (uninformed: BFS, DFS, DLS ; informed: A\* ) and compare their performances - https://github.com/binaya07/8-puzzle
* Customer Relationship Manger(CRM) application using Spring Framework along with Hibernate for database handling and Spring Rest for creating REST Service.
* Android app - Bookstore management system that also provides online book buying and selling platform - <https://github.com/binaya07/PUSTAK>
* Pension fund calculator (for Nepal Electricity Authority) – It is a desktop application built in Java that calculates pension fund after an employee resigns. It takes input in Nepali and generates a pdf file containing the details.
* Built Baghchal game (Traditional Nepali Board Game) in C - <https://github.com/binaya07/Baghchal-Board-Game>