

February 22, 2020

# Nabin Bhattarai

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CONTACT INFORMATION	Machine Learning Engineer, AI Enthusiast Maitidevi Kathmandu, Nepal	Phone: (+977) 984-994-3298 E-mail: nbn.bhattarai99@gmail.com Website: nbnbhattarai.github.io Github: nbnbhattarai
RESEARCH INTEREST	My primary research interest is in the field of AI/ML and it's application in various areas like NLP, Vision, Speech and Control. Specifically, I am interested to explore how machine learning can help us endue machines with autonomy and intelligence.	
PERSONAL DETAIL	Full Name : Date of birth : Nationality : Language :	Nabin Bhattarai September 28, 1995 Nepali Nepali(Native), English, Hindi
INTERESTS	Artificial Intelligence/Machine Learning, Quantum Computation	
EDUCATION	<b>Institute of Engineering, Pulchowk Campus</b> , Kathmandu, Nepal September 2013 – September 2017 Bachelor in Computer Engineering  <b>Himalayan WhiteHouse International College</b> , Kathmandu, Nepal July 2011 – August 2013 Higher Secondary Education Board (Science)  <b>Jagannath Higher Secondary School</b> , Ramnagar-1, Bhumahi, Nawalparasi, Nepal April 2011 School Leaving Certificate (SLC)	
AWARDS AND SCHOLARSHIPS	<b>Scholar, Bachelor in Computer Engineering</b> , IOE Pulchowk Campus • Scholarship for tuition fees waiver during 4 year bachelor program.  <b>HSEB Scholar</b> , Himalayan Whitehouse International College • Scholarship for tuition fees waiver for 2 year of Higher Secondary program.  <b>ChildApp</b> , Second runner-up • For Project <i>SMS Care</i>	2013 – 2017  2011 – 2013  2015.
TECHNICAL SKILLS	<b>Programming and Scripting Languages:</b> Python, Julia, C/C++, Java, Bash, JavaScript <b>AI/ML Frameworks and Libraries:</b> PyTorch, TensorFlow, Keras, Sci-kit Learn <b>Libraries:</b> Numpy, Pandas, Matplotlib <b>Web:</b> Django, HTML, CSS, ReactJS <b>Mobile:</b> React Native, Java <b>Operating Systems:</b> Linux, Windows, Android <b>Database Tools:</b> PostgreSQL, MySQL, SQLite3, MongoDB <b>Tools:</b> Git, Emacs, $\text{\LaTeX}$	

CONFERENCES AND PRESENTATIONS	<b>International Conference on Computing Communication and Security (ICCCS 2018)</b> October 2018	
	<i>Music Recommendation Based on Personality Traits, (Presenter)</i>	
	<b>Undergraduate Thesis Presentation</b>	August 2017
	Department of Electronics and Computer Engineering, Pulchowk Campus Project: <i>Personality Based Music Recommendation System</i>	
	<b>Undergraduate Minor Project Presentation</b>	July 2016
	Department of Electronics and Computer Engineering, Pulchowk Campus Project: <i>Chatbot</i>	
PUBLICATIONS	Music Recommendation Based on Personality Traits	ICCCS 2018, Kathmandu, Nepal
PROFESSIONAL EXPERIENCE	<b>Fusemachines</b> , Kathmandu, Nepal.	December 2019 – Present
	<i>Machine Learning Engineer</i>	
	<ul style="list-style-type: none"> <li>Responsible for content creation for fuse.ai Deeplearning course</li> <li>Deep learning project development for fuse.ai course</li> </ul>	
	<b>Impact Lab &amp; Innovation</b> , Kathmandu, Nepal.	January 2018 – November 2019
	<i>R &amp; D Engineer, Team Lead</i>	
	<ul style="list-style-type: none"> <li>Responsible for Team Coordination</li> <li>Responsible for Software Architecture Analysis and Design</li> <li>Responsible for Python Web Application Design, Testing and Deployment</li> </ul>	
	<b>Big O Infotech</b> , Lalitpur, Nepal.	April 2019 – August 2019
	<i>Software Engineer</i>	
	<ul style="list-style-type: none"> <li>Mobile App Development with React Native</li> </ul>	
	<b>IT Training Nepal</b> , Kathmandu, Nepal.	July 2018 – December 2018
	<i>Instructor</i>	
	<ul style="list-style-type: none"> <li>Basic and Advanced Python Programming</li> <li>Web Development with Django Framework</li> <li>Basic Data Science and Analytic</li> </ul>	
	<b>UNICEF Nepal</b> , Kathmandu, Nepal.	January 2015 – April 2015
	<i>RapidPro Developer</i>	
	<ul style="list-style-type: none"> <li>Responsible for Design and Testing of SMS flows in RapidPro SMS platform</li> <li>Responsible for Design of WebApp for SMS monitor</li> <li>Usage of RapidPro webhook</li> </ul>	
TRAININGS	Windows Store App Development, Android App Development, Arduino Programming	
ONLINE TRAININGS	<ul style="list-style-type: none"> <li>Fundamentals of Reinforcement Learning(<i>Coursera</i>)</li> </ul>	

- Deep Learning(*Coursera*)
- Mathematics for Machine Learning: Linear Algebra(*Coursera*)
- Social Entrepreneurship(*edx*)
- Quantum Machine Learning(*edx*)

## PROJECTS

### Personality Based Music Recommendation System

Collaborative filtering based Recommendation system using user's personality data extracted from social media, *Major/Final Year Project*

Supervisor: **Daya Sagar Baral**, Lecturer, Department of Electronics and Computer Engineering, Pulchowk Campus, Institute of Engineering, Tribhuvan University.

- Skill: Python, Machine Learning, Django, HTML, CSS, Javascript, Semantic-UI

### Satin Chatbot

Question answering chatbot system based on self learned Question Answer Pattern(QAP) and structured knowledge base. *Minor Project*

Supervisor: **Dr. Basanta Joshi**, Assistant Professor, Department of Electronics and Computer Engineering, Pulchowk Campus, Institute of Engineering, Tribhuvan University.

- Skill: Python, NLTK, Machine Learning

### Speech Recognition System

Automatic Speech Recognition (ASR) system based on N-Gram Language Model with Mel-frequency cepstral coefficients(MFCCs) feature and k-nearest neighbors (KNN) classifier.

- Skill: Python, Machine Learning, Feature Extraction(MFCC), Audio Processing

### 3D Rendering Software

3D Graphics Rendering Program, *Computer Graphics Course Project*

- Skill: C++, SFML C++ Library

### Nepalotype

Web tutor for Nepali Typing, *Personal Project*

- Skill: React.JS, Python/Flask

### e3Chat

A end-to-end encrypted peer-to-peer audio/text chat program.

- Skill: C++, WxWidget, Network Socket Programming