ASHUTOSH CHAUBEY

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Interests

Artificial Intelligence, Deep Learning, Android Development, Web Development

Education

- **B. Tech. in Computer Science and Engineering** – 2017-2021(Expected) - Indian Institute of Technology, Roorkee. **CGPA - 9.78***
- **All India Senior School Certificate Examination** – 2017 - Delhi Public School, Bhilai - **97%**
- **All India Secondary School Examination** – 2015 - Delhi Public School, Bhilai - **CGPA - 10.0**

Scholastic Achievements

- **Department Rank 2** in the Department of CSE on the basis of Cumulative Grade Point after three semesters - 2018
- **Awarded O grade** for exceptional performance in **Mathematics-I, Discrete Mathematics** and **Fundamental of Electronics** - 2017-18
- Secured **All India Rank 575** in **JEE-Main** out of 1.2 million candidates - 2017
- Achieved **All India Rank 402** in I**IT JEE-Advanced** out of 2,00,000 candidates - 2017
- Received **certificate of merit** and a letter of appreciation from the Hon'ble HRD Minister of India for scoring 100% in Chemistry in All India Senior School Certificate Examination - 2017
- Achieved **Rank 1** in **Chattisgarh Pre-Engineering Test(CGPET)** among 25,000 students - 2017
- Awarded **National Talent Search Examination Fellowship** by NCERT under the HRD ministry, Govt. of India - 2015
- Awarded the prestigious **Kishore Vaigyanik Protsahan Yojana Fellowship** by IISc, Bengaluru - 2016
- Qualified the **National Standard Examinations** in **Physics, Chemistry** and **Astronomy** NSEP, NSEC, NSEA; ranked among top 6(0.1%) students in Chhattisgarh state - 2017

Projects

AUTOMATIC EVALUATION OF TEXT TO SPEECH
FEBRUARY 2019 - PRESENT
- Automatic Evaluation of speech generated by TTS Model
- Evaluation of humanness and emotions of the generated speech

ONE SHOT LEARNING USING SIAMESE NETWORKS — HTTPS://GITHUB.COM/AC-ALPHA/ONE-SHOT-LEARNING-USING-SIAMESE-NETWORKS
MARCH 2019

• Implementation of the "Siamese Neural Networks for One-shot Image Recognition" by Koch et al using pytorch.
• Used omniglot dataset to train a Siamese Network

VARIATIONAL AUTO ENCODERS USING PYTORCH —HTTPS://GITHUB.COM/AC-ALPHA/VAES-USING-PYTORCH
FEBRUARY 2019

• Implementation of the Autoencoder Variational Bayes paper using pytorch.
• Used MNIST dataset to train a linear and convolutional network and conducted experiments.

CLASSIFYING NAMES USING RNN — HTTPS://GITHUB.COM/AC-ALPHA/CLASSIFYINGNAMESWITHRNN
DECEMBER 2018

• Classifier which outputs expected country of an individual by his/her name.
• Used **pytorch** to train a character-level **vanilla RNN** unit
• Made various conclusions based on the results observed

FORGOTNOT — HTTPS://GITHUB.COM/AC-ALPHA/FORGOTNOT
AUGUST 2018
• **Android application** to extract date/time related information from incoming notifications and ask the user to set a reminder.

STUDY!BUDDY - HTTPS://GITHUB.COM/AC-ALPHA/STUDY-BUDDY
JUNE 2018
• **Android Launcher** which automatically blocks social media apps and other distracting apps to help user focus in studies along with one tap tools used during exam preparation.

GETBIN - HTTPS://GITHUB.COM/AC-ALPHA/GETBIN
FEBRUARY 2018
• **Android application** which shows the location of dustbins closer to the user in a map. Users can add dustbin locations which are verified and added to the database.

Technical Skills

• **Android Development** - with Java/Kotlin
• **Python** - NumPy, SciPy, TensorFlow, Pytorch
• **C/C++**

- **Web Development** - HTML, CSS, Bootstrap, JavaScript, jQuery, Django
- **Utilities** - Android Studio, Xcode, Terminal, Pages, Numbers, Keynote

Courses Undertaken

- **Computer Science** - Introduction to Computer Science & Engineering, Introduction to Object Oriented Programming, Data Structures and Algorithms, Discrete Structures, Object Oriented Analysis and Design, Computer Architecture and Microprocessors, Data Structures Lab, Operating Systems, System Software, Software Engineering, Design and Analysis of Algorithms
- **Electronics** - Fundamental of Electronics, Digital Logic Design, Signals and Systems, Digital Electronics Lab
- **Others** - Optimisation Techniques, Mathematics-I, Electrodynamics and Optics, Statistical and Quantum Mechanics, Ethics and Self Awareness, Communication Skills (BASIC), Introduction to Environmental Studies, Engineering Thermodynamics, Electrical and Electronic materials.

Extracurriculars

- **Core Member of Vision and Language Group, IIT Roorkee** which conducts regular meetings and discussions on latest stuff related to Computer Vision and NLP
- Successfully submitted hack in **code.fun.do hackathon** conducted by **Microsoft Academia Accelerator Program** - 2018
- Successfully taught slum children basic English and Maths for one-year under Prerna Cell, **National Service Scheme (NSS)** - 2017-18
- Attended **Vijyoshi camp** conducted by IISER, Kolkata which serves as a forum for interactions between bright young students and leading researchers in fields of science and mathematics - 2016