



YASH BHATNAGAR



ACADEMIC DETAILS

| Year | Degree / Board | Institute | GPA / Marks(%) |
|------|---|---------------------------------------|----------------|
| --- | B.Tech in Biochemical Engineering & Biotechnology | Indian Institute of Technology, Delhi | 7.164 |
| 2016 | CBSE class XII | Ryan International School | 90% |
| 2014 | CBSE class X | Ryan International School | 10/10 |

SCHOLASTIC ACHIEVEMENTS

- Secured **All India Rank 3504** in JEE Advanced'17 and **2525** in JEE Mains'17 amongst **1.4** million candidates (2017)
- Merit Cum Means:** Recipient of MCM Scholarship for **6** consecutive semesters from during stay at IIT (2017,2020)
- Deep Learning Specialization, deeplearning.ai:** Certified for completion of **5** Coursera courses in Python (2020)
 - Topics: CNNs, RNNs, LSTM, Adam, Dropout, BatchNorm, Xavier/He initialization; profile- github.com/yashbhtngr
- School level topper** National Science Olympiad conducted by Science Olympiad Foundation amongst 80+ students (2015)

INTERNSHIPS

- eJET Systems Pvt. Ltd., Noida** (April'20- June'20) : *Project Sona.AI*
 Built **NLP** chatbot, resume shortlisting and video interviewing solutions with **deep learning** to automate recruitment processes
 - Classified resumes to match sequential experience of a candidate with given job opening, using **Bi-RNNs** and **LSTMs**
 - Deployed a **CNN** model to score candidate's video resumes by extracting standard soft skills from audio and transcript data
 - Achieved **96.9% average precision** on unseen test data; model in commercial use, **saving 50+ man hours per month**
 - Received **Letter of Recommendation** and **Pre Placement Offer** for excellent work ethics and successful deliverables
- National Tsing Hua University, Taiwan** (Institute of Computational Biology, May'19 - July'19)
 Repurposing a set of FDA-approved drugs as allosteric inhibitors to suppress tumor progression and assist chemotherapy
 - Executed in silico screening of over **1312** FDA approved drugs by using softwares **Autodock Vina** and **MDAnalysis**
 - Developed a model using **python** that can predict the inhibitory effects of user inputted drugs ID's on tumor progression
 - The machine learning model (**K means clustering**) was used to sum the key features for ranking-order the obtained drugs.
 - Received **Letter of Recommendation** from Prof. Lee Wei Yang for exceptional research work and successful deliverables

PROJECTS

- Screening of Manure Samples for Presence of Antimicrobial Resistance Bacteria** (Prof. Shilpi Sharma, Feb.'19- April'19):
 - Analysed **180 manure samples** collected from across the country for the presence of Antibacterial Resistance Bacteria
 - Tested antimicrobial susceptibility for **18 antibiotics** on obtained samples to different concentrations over a period of 2 months
- Research and Development of Cloth Sanitary Napkins** (Prof. Deepti Gupta, May'18- August'18):
 - Led Development of low-cost biodegradable cloth sanitary napkin in collaboration with Textile Engineering Laboratory
 - Conducted experiments to assess the absorbance properties of textile materials and characterize fluid flow through them
 - Manufactured prototypes of cheap biodegradable cloth pads and did user feedback studies to increase their acceptability
- Anti-Depression Chatbot, Project Sona.AI:** A Cognitive Behavioural Therapy based approach to help employees(July'20)
 - Implemented a variation of **attention model** to classify the polarity of responses from the user's side as positive or negative
 - Successfully Completed the **MVP** and achieved an overall accuracy of **93.1%** on the first round of **Intent classification**

TECHNICAL SKILLS

- Softwares:** PuTTY, WinSCP, ANSYS, Keras, Pytorch, TensorFlow, SQL, MS Office
- Languages:** C++, R, Python (TensorFlow, Scikit-learn, Numpy, Pandas, Scipy, Matplotlib), MATLAB, MySQL

EXTRA CURRICULAR ACTIVITIES

- Enactus IIT Delhi, Project Alo:** Participated in **5** Business Plan and case study competitions, representing project Alo
 - Finalist, Eureka'18:** Asia's largest Business Plan Competition among **10,000 +** teams hosted by E- Cell, **IIT Bombay**
 - Top 10, Ulnccept'18 :** showcased Project Alo at Ulnccept Incubation Program, an edtech accelerator powered by **NUMA**
 - Finalist, The Pitch Room, Startup Jalsa'18:** dharmshala based investor pitch event, pitched in front of **50+** investors
 - Finalist, Villgro iPitch'18:** Finalist in Villgro's annual investment Platform, an **Impact Investment B - Plan** competition
 - Top 24, Enactus National Competition'18:** among **100+** teams, judged on business impact by CEOs of **KPMG, Unilever**

POSITIONS OF RESPONSIBILITY

- Enactus IIT Delhi, Project Alo, Senior Associate** (April, 2018 - April, 2019) :
 An idea to change the way that Indians perceive education, through project based hands on learning of real world subjects
 - Co-Led a product design & innovation team of **6** students in collaboration with students of Kamala Nehru College, Delhi
 - Generated a revenue of **1.7 Lakhs** through Law, Fashion Designing, Electrical Engineering and Psychology workshops
 - Reached **1000+** students and **150+** parents interested in enrollment through market research and gathering contacts
 - Organized a hands-on Psychology workshop in a **2 - week** long summer camp with **100+** school students of classes **6-10**

Disclaimer: All the information on this page is entered by student.



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IIT COURSE

Degree

B.Tech in Biochemical Engineering & Biotechnology

Institute

Indian Institute of Technology, Delhi

CGPA

7.164

COURSES DONE

Introduction To Chemistry, Chemistry Laboratory, Intro. To Computer Science, Intro. To Electrical Engg., Calculus, Intr.to Material Sc. & Engg., Principles Of Biochemistry, General Microbiology, Mass & Energy Balances In Bio., Introduction To Biochem. Engg., Transport Phenomena, Intro. To Biology For Engineer, Bioprocess Technology, Fluid Mechs. For Chem. Engineer, Heat Transfer For Chemical Eng, Molecular Biology & Genetics, Bioprocess Engineering, Bioprocess Engineering Lab, Mass Transfer I, Process Dynamics And Control, Chemical Engineering Lab I, Environmental Science, Biomass Production

QUALIFYING EXAM

- Joint Entrance Examination (JEE) Advanced Rank: 3504 (GE)

EXTRA CURRICULAR ACTIVITIES

- Publicity and Creativity Ahead, Sportech'19 BSA (January, 2019 - March, 2019)
- Winner, Mentor Group Asian Parliamentary Debate 2017 (November, 2017)

POSITIONS OF RESPONSIBILITY

- Junior Associate, Enactus IIT Delhi (November, 2017 - April, 2018):
- Senior Associate, Enactus IIT Delhi (April, 2018 - April, 2019):

INTERNSHIPS

- Year: 2020, Company: sona.AI, Profile: AI/ML/NLP intern