Yash Goenka

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Education

- **University of California Berkeley** — Berkeley, CA
  Bachelors in Data Science — *May 2021*
  - **Relevant Coursework**: Data Structures; Algorithms; Software Engineering; Machine Learning; Artificial Intelligence; Database Systems; Applied Data Science; Data Engineering; Computer Security
  - **Certificate in Entrepreneurship & Technology**: from Sutardja Center for Entrepreneurship & Technology

Experience

- **AllSides** — San Francisco, CA
  Software Engineering Intern — *June 2020 to September 2020*
  - **Javascript Widgets**: Developed syndication widgets for AllSides. Available at www.allsides.com/syndication
  - **Databases and APIs**: Built databases and REST APIs using MySQL, PostgreSQL, Express, Firebase and AWS.
  - **Optimization**: Made jQuerry widgets load upto 80% faster using lazy loader and made them more SEO friendly.
- **Iris BCI** — Berkeley, CA
  Co-founder — *September 2016 to July 2019*
  - **Brain Computer Interface**: Built device that helped severely disabled individuals to communicate using just their thoughts. The device was 10 times than existing assistive technology for such disabilities.
  - **Startup Accelerator**: Received funding, working space and mentorship from industry experts, startup founders and VCs. Mentored by partners from Sequoia Capital and Greylock; Find out more at www.freeventures.org
  - **Artificial Intelligence**: Developed neural networks and deep learning classifiers with prediction accuracy of 0.77%
- **Berkeley Hyperloop** — Berkeley, CA
  Software Engineer — *August 2017 to December 2019*
  - **Hyperloop Pod**: We built a levitating train that shot through a vacuum tube at 750-plus mph.
  - **SpaceX**: Competed in Hyperloop Pod Competition by SpaceX as Finalists in 2017, 2018.
- **Space Enterprise at Berkeley** — Berkeley, CA
  Software Engineer — *August 2017 to December 2018*
  - **Eureka - 1**: Designed avionics software for a rocket we built that is 50% faster than the speed record by universities.

Projects

- **Development and Modelling** — Berkeley, CA
  Individual Projects — *May 2020 to Present*
  - **Detect AI Generated Fake Text**: Developed a model that validates if a text was generated using popular natural language model GPT-2 by OpenAI. Utilized tools from MIT IBM Watson AI lab and Harvard NL.
  - **Stock Price Prediction**: a pipeline that lets anyone train their own machine learning models on multiple stocks. Utilized Linear Regression, Random Forrest, XGBoost and LSTM models.
  - **Uber Demand Prediction**: Developed web app and model that forecasts hourly Uber demand across NYC neighborhoods. Utilized Linear Regression, SARIMAX and Facebook Prophet.
  - **Diabetes Prediction**: Used PIMA Indian Diabetes Dataset to predict whether a user has diabetes or not. Utilized Logistic regression.
  - **FSDL Deforestation Detection**: detected deforestation from satellite imagery using Deep Learning.

Skills

- **Languages**: Python, Java, Javascript, Node.js, React.js, jQuery, C, SQL, Solidity, React Native, Flutter
- **Tools**: MySQL, PostgreSQL, MongoDB, Flask, Git, Docker, Kubernetes, AWS, Firebase, GCP, BigQuery, Spark
- **Libraries**: Pandas, NumPy, Matplotlib, Seaborn, Plotly, BeautifulSoup, Scrapy, Express.js
- **ML Libraries**: SciKit-Learn, SciPy, Keras, PyTorch, Tensorflor, XGBoost, LightGBM, NLTK, Spacy, OpenCV
- **Awards**: UC Berkeley Big Ideas Finalist (2017, 2018); National Innovation Foundation award (top 28 of 27,000); Intel Science and Engineering Fair (Iris)- Silver Medal (top 15 out of 1,800 finalist from 2 million+ submissions)
- **Patent**: Method For Designing A Graphene Based Supercapacitor (2020) (Patent No. 328983) (bit.ly/ygpatent)