New Coder Model

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"An investment in knowledge pays the best interest."

- BENJAMIN FRANKLIN

New Coder Bootcamp Information

Who is most likely to complete a New Coder Bootcamp based on the data set retrieved from Github Free Code Camp?

Who participated?

More than 31,000 new coders responded to this survey. These are people who have been coding for less than 5 years.
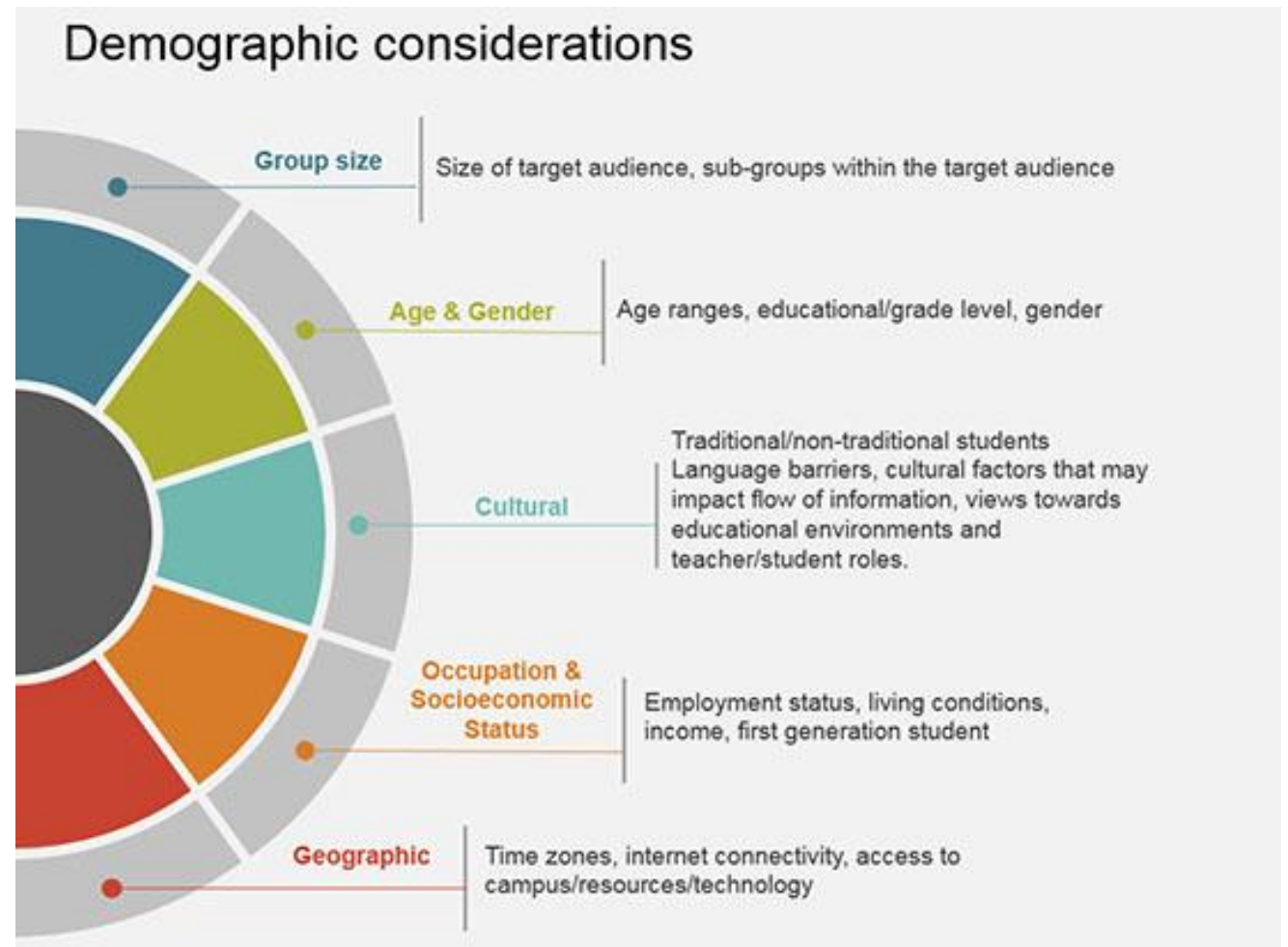
Some of the Demographics included in the Survey

Here are some high level facts about them:

- 67% of them live outside the United States

- Their median age is about 30 years old

  21% are women

- One quarter identifies as being part of an ethnic minority in their country

- 8% are military veterans

They've been coding for an average of 21 months
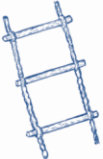
17% have already landed their first developer job

Demographic considerations

Group size — Size of target audience, sub-groups within the target audience

Age & Gender — Age ranges, educational/grade level, gender

Cultural — Traditional/non-traditional students Language barriers, cultural factors that may impact flow of information, views towards educational environments and teacher/student roles.

Occupation & Socioeconomic Status — Employment status, living conditions, income, first generation student

Geographic — Time zones, internet connectivity, access to campus/resources/technology

Learner goals and approaches

40% of them would like to either freelance or start their own business.

Learning Resources Used by the Courses

Some of the resources that were used were:

freeCodeCamp

Stack Overflow

Codeacademy

Udemy Mozilla Developer Network (MDN)

Khan Academy

Coursera

General Knowledge and Learning

- Khan Academy
- TED
- JobScout

- Skillshare
- Duolingo
- YouTube

- ALISON
- LinkedIn Learning (Lynda.com)
- Udemy
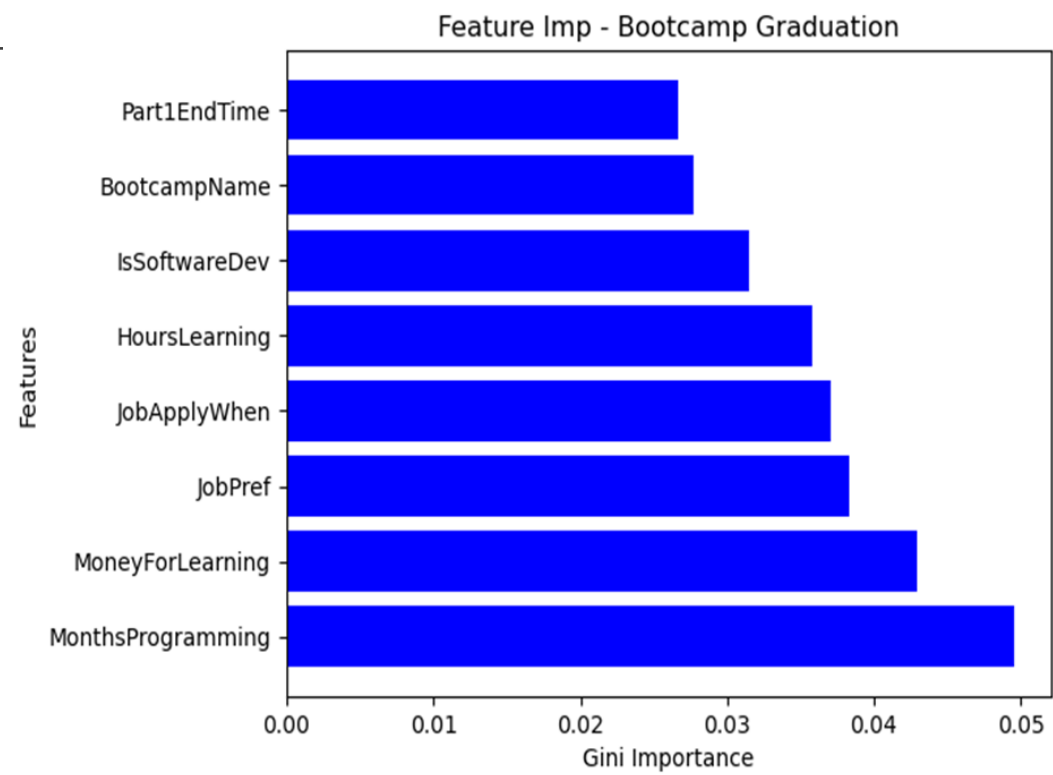
Less than half attended In-Person-Coding –Related Events

New Coder Bootcamp Information

- Roberta Chandler used the Random Forest Model.

- Phil Klimkewicz Tried the XGBoost &Light GBM Model.

- Ayana tried the Logistics Regression & Decision Trees Model.

- Dominique Davis tried the SVM and KNN Models.

Feature Imp - Bootcamp Graduation

New Coder Bootcamp Information

Our Models used all the columns.

The reason all the columns were needed was there were so may variables.

The top eight most important features were months programming, money for learning, job preference, Jobs applied when finished. Hours learning, current software developers, something related to the bootcamp names, time of day the courses started.

In Conclusion

The final data showed that the largest contributor to success and finishing the course was if the students had more time already working in some type of programing experience.